



11244 Pyrites Way • Gold River, CA 95670
Phone 916 851 0174 • Fax 916 851 0177 • Toll Free 1 800 242 5249

March 7, 2006

Ms. Peggy Carr
Sonoma County Department of Health Services
475 Aviation Boulevard, Suite 220
Santa Rosa, California 95403-2097

Subject: **Groundwater Monitoring Well and Soil Boring Installation Results Report**
Rotten Robbie Service Station No. 60
55 E. Todd Road, Santa Rosa, Sonoma County, California
Apex Project No. RMA01 001

Dear Ms Carr:

Apex Envirotech, Inc. (Apex) has been authorized by Robinson Oil Corporation (Robinson) to provide this results report in response to the Sonoma County Department of Health Services (SCDHS) letter, dated May 16, 2005 regarding the above referenced site (Figure 1). A copy of the SCDHS's letter is included as Appendix A. This work was performed to characterize the extent of residual hydrocarbons in soil at the site.

This results report has been developed in part on the basis of information obtained by Apex from Robinson and the SCDHS, and is subject to modification as newly acquired information may warrant.

BACKGROUND

August 18, 2003 - RM Associates (RMA) supervised the installation of eight soil borings at the subject property as part of a Phase II Environmental Site Assessment conducted in association with the sale of the property from Mr Dave Zedrick to Robinson. RMA collected soil samples from three of the borings and groundwater samples from all eight of the borings. RMA documented the results in, *Report of Phase II Environmental Site Assessment*, dated October 13, 2003

September 9, 2003 - The SCDHS requested a workplan to investigate the site

November 4 - 5, 2003 - Soil and pavement were excavated from above the former gasoline and diesel underground storage tanks (UST). The materials were temporarily stockpiled onsite, pending analysis and profiling. RMA sampled the stockpiled soil on November 6, 2003.

November 7, 2003 - Armer/Norman and Associates removed the five former USTs. No holes were noted in any of the USTs. Under the direction of the Sonoma County Department of Emergency Services and the SCDHS, RMA collected confirmation soil samples from the UST basin. Ecology Control Industries under Uniform Hazardous Waste Manifests hauled the USTs offsite.

November 10, 2003 - RMA collected five 4:1 composite soil samples from the stockpiled soil that had been removed from the new UST location.

December 3, 2003 - The former product lines and dispensers were removed. RMA collected confirmation samples and six 4:1 composite samples from the stockpiled soil.

January 16, 2004 - RMA documented the results of the UST removal and replacement, *Report of Underground Storage Tank Removal*

February 23, 2004 - Apex submitted, *Workplan for Preliminary Site Assessment*, outlining the installation and sampling of 10 direct-push soil borings and four groundwater monitoring wells. The SCDHS approved the workplan in a letter dated March 9, 2004.

June 15 - 16, 2004 - Apex supervised the installation of nine direct-push soil borings (GP-1, GP-3 through GP-10) to delineate the lateral and vertical extent of soil and groundwater contamination beneath the site. GP-1, GP-3, GP-4 and GP-6 through GP-10 were drilled to a total depth of 12 feet below ground surface (bgs), and GP-5 was drilled to a total depth of 20 feet bgs.

July 7 - July 9, 2004 - Apex personnel supervised vacuum clearing, drilling, sampling and installation of four groundwater monitoring wells (MW-1 through MW-4).

November 9, 2004 - Apex submitted the report, *Preliminary Site Assessment Results Report and Fourth Quarter 2004 Groundwater Monitoring Report*, detailing activities and results for boring and monitoring well installation activities.

December 30, 2004 - SCDHS requested a workplan to complete characterization of the site. In addition, the SCDHS requested completion of a sensitive receptor survey.

March 2, 2005 - Apex submitted the report titled, *Sensitive Receptor Survey and Workplan for Additional Site Characterization*, proposing the installation of three additional soil borings, and five groundwater monitoring wells to further characterize the site.

April 28, 2005 - Apex submitted a "Clarification Letter" to address the concerns of the SCDHS.

May 16, 2005 - Apex received a letter from the SCDHS approving the work dated March 2, 2005.

MONITORING WELL INSTALLATION ACTIVITIES

Underground Service Alert was contacted for identification of buried utilities at or entering the project site from the public right-of-way. For safety purposes, the first 5-feet of each boring was hand augured.

On October 4, 2005, Apex supervised the installation of three groundwater monitoring wells (MW-5 through MW-7) (Figure 2). The wells were installed by Woodward Drilling Co., Inc., of Rio Vista, California. Wells MW-5 through MW-7 were installed onsite in an attempt to delineate the lateral and vertical extent of petroleum hydrocarbons in soil beneath the site. Monitoring wells MW-8 and MW-9, proposed in the Caltrans right-of-way were not installed during this mobilization due to the lengthy permitting process involved in obtaining encroachment permits for these wells. Upon approval of the NCRWQCB, Apex proceeded with the installation of wells MW-5 through MW-7 and is currently awaiting the approval of encroachment permits for wells MW-8 and MW-9.

Well Construction Details

Groundwater monitoring wells MW-5 through MW-7 were installed as 2-inch diameter Schedule-40 PVC monitoring wells to a total depth of 23-feet bgs. The well casings were screened with 0.020-inch slotted screen from 3-feet bgs to total depth. All groundwater monitoring wells were constructed with #3 Monterey sand filter pack to 1-foot above the screened interval followed by one foot of bentonite seal and Portland cement to the surface. The wells are protected with locking expansion caps and flush-mounted traffic-rated vault boxes. All work was completed in accordance with the Apex standard operating procedures (SOP) included in Appendix B. Well construction details are presented in Table 1.

Soil Sampling

Soil samples were collected from each boring at five-foot intervals, and at obvious lithologic changes. As proposed in the approved workplan, a minimum of two soil samples from borings MW-5 through MW-7, were submitted to a State-certified laboratory for analysis. In order to correlate new soil analytical data with data collected during the initial subsurface investigation, the samples from the 10.5 and 15-foot bgs intervals were submitted to the laboratory, along with additional samples.

Soil lithology and visual observations for each sampled boring were recorded in the field. Soil samples were field screened with a photo ionization device. All sampling was conducted in accordance with the Apex SOP included in Appendix B. Soil encountered during the installation of the wells was logged according to the unified soil classification system, under the supervision of a State of California registered professional geologist. Boring logs for each of the wells are presented as Appendix C.

DIRECT-PUSH SOIL BORING INSTALLATION ACTIVITIES

On October 6, 2005, Apex personnel supervised the advancement of three direct-push soil borings (GP-1B, GP-5B, and GP-11) (Figure 2). All direct-push soil borings were continuously sampled from surface to the top of the first aquitard. A sample of the aquitard was then collected from each boring. Boring GP-11 was also sampled at 5-, 10-, and 15-foot bgs due to the indication of possible contamination observed in the field. Total depths varied with each boring. Boring GP-1B was advanced to 28.5-foot bgs, boring GP-5B was advanced to 29-foot bgs and boring GP-11 was advanced to 24-feet. The borings were then grouted to the surface using type I-II cement in accordance with SCDEH regulations.

Analytical Procedures

All soil samples were submitted under chain-of-custody (COC) documentation to California Laboratory Services of Rancho Cordova, California, a State-certified analytical laboratory. The samples were analyzed for:

Analysis	Abbreviation	Designation	USEPA Method No.
Total Petroleum Hydrocarbons as Diesel	TPHd	Petroleum Hydrocarbons	8015M
Total Petroleum Hydrocarbons as Gasoline	TPHg		
Benzene	BTEX	Aromatic Volatile Organics	8021B
Toluene			
Ethylbenzene			
Xylenes (Total)			
Methyl Tertiary Butyl Ether	MTBE	Fuel Oxygenates	8260B
Di-isopropyl ether	DIPE		
Ethyl tertiary-butyl ether	ETBE		
Tertiary-amyl methyl ether	TAME		
Tert-butyl alcohol	TBA		
Ethanol	Ethanol		
Methanol	Methanol		
1,2-Dichloroethane	1,2-DCA	Lead Scavengers	
1,2-Dibromoethane	EDB		

In addition to the analyses listed in the table above, a 4:1 composite soil stockpile sample was also analyzed for total lead by EPA Method 6010 for disposal purposes. Soil analytical results for the site are presented in Table 2. Copies of the laboratory results and COC documentation are presented in Appendix D. All soil and rinsate water generated during drilling activities is being stored onsite in Department of Transportation approved 55-gallon drums.

CONCLUSIONS

According to the soil analytical data from the installation of three groundwater monitoring wells, well MW-5 had detectable levels of TBA in all four samples and MTBE in sample MW-5-23'. Wells MW-6 and MW-7 were below laboratory detection limits for all analyzed constituents.

Boring GP-11 had decreasing levels of TBA. MTBE and toluene were also detected at boring GP-11. Boring GP-5B had a detection of ethylbenzene with a concentration just above the detection limit. Analytical results for GP-1B were below laboratory detection limits for all analyzed constituents.

RECOMMENDATIONS

Installation of wells MW-8 and MW-9 has been postponed until the receipt of Caltrans encroachment permits.

Apex recommends adding the three new monitoring wells to the existing sampling plan and to continue groundwater monitoring at the site to develop groundwater gradient and contaminant concentration trends. All wells (MW-1 through MW-7) will be sampled during the first quarter 2006 groundwater monitoring event, which is scheduled for March 2006.

REPORT DISTRIBUTION

Apex submitted a copy of this report to:

Ms. Peggy Carr
Sonoma County Department of Health Services
475 Aviation Boulevard, Suite 220
Santa Rosa, California 95403-2097
(707) 565-6577

Mr. Luis Rivera
North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

Mr. Tom Robinson

Mr. Ron Michelson

Mr. Dave Zedrick

REMARKS/SIGNATURES

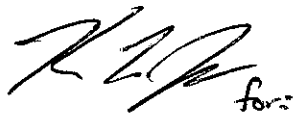
The information contained within this results report reflects our professional opinions and was developed in accordance with currently available information, and accepted hydrogeologic and engineering practices.

The proposed work described above was performed under the direct supervision of the professional geologist, registered with the State of California, whose signature appears below.


We appreciate the opportunity to provide Robinson with geologic, engineering and environmental consulting services, and trust this results report meets your needs. If you have any questions or comments, please call us at (916) 851-0174

Sincerely,

APEX ENVIROTECH, INC.

Handwritten signature of Kelli N. Felker in black ink.

Kelli N. Felker
Project Manager

Handwritten signature of Michael Sgourakis in black ink.

Michael Sgourakis, P.G.
Senior Geologist
C.P.G. No. 7194



FIGURES:

FIGURE 1 SITE VICINITY MAP

FIGURE 2 SITE PLAN MAP

TABLES:

TABLE 1 WELL CONSTRUCTION DETAILS

TABLE 2 SOIL ANALYTICAL DATA

APPENDICES:

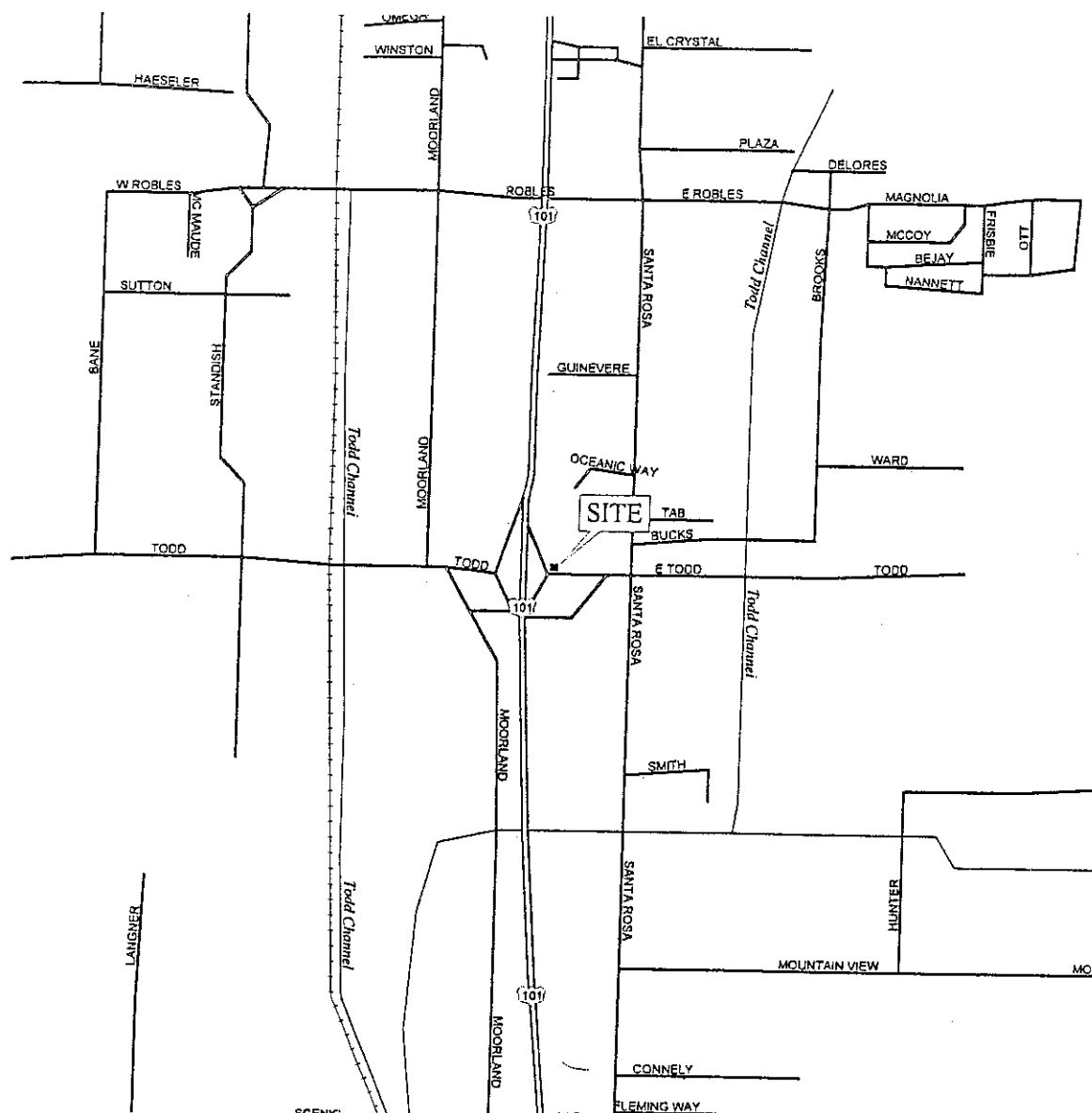
APPENDIX A SCDHS LETTER
DATED MAY 16, 2005

APPENDIX B APEX STANDARD OPERATING PROCEDURES

APPENDIX C BORING LOGS AND WELL CONSTRUCTION DIAGRAMS

APPENDIX D LABORATORY ANALYTICAL REPORTS AND
CHAIN OF CUSTODY FORMS

FIGURES



0 0.25 0.5
Approximate Scale
1 inch = 0.25 miles



DRAWN BY: D. Alston
DATE: 2/10/04

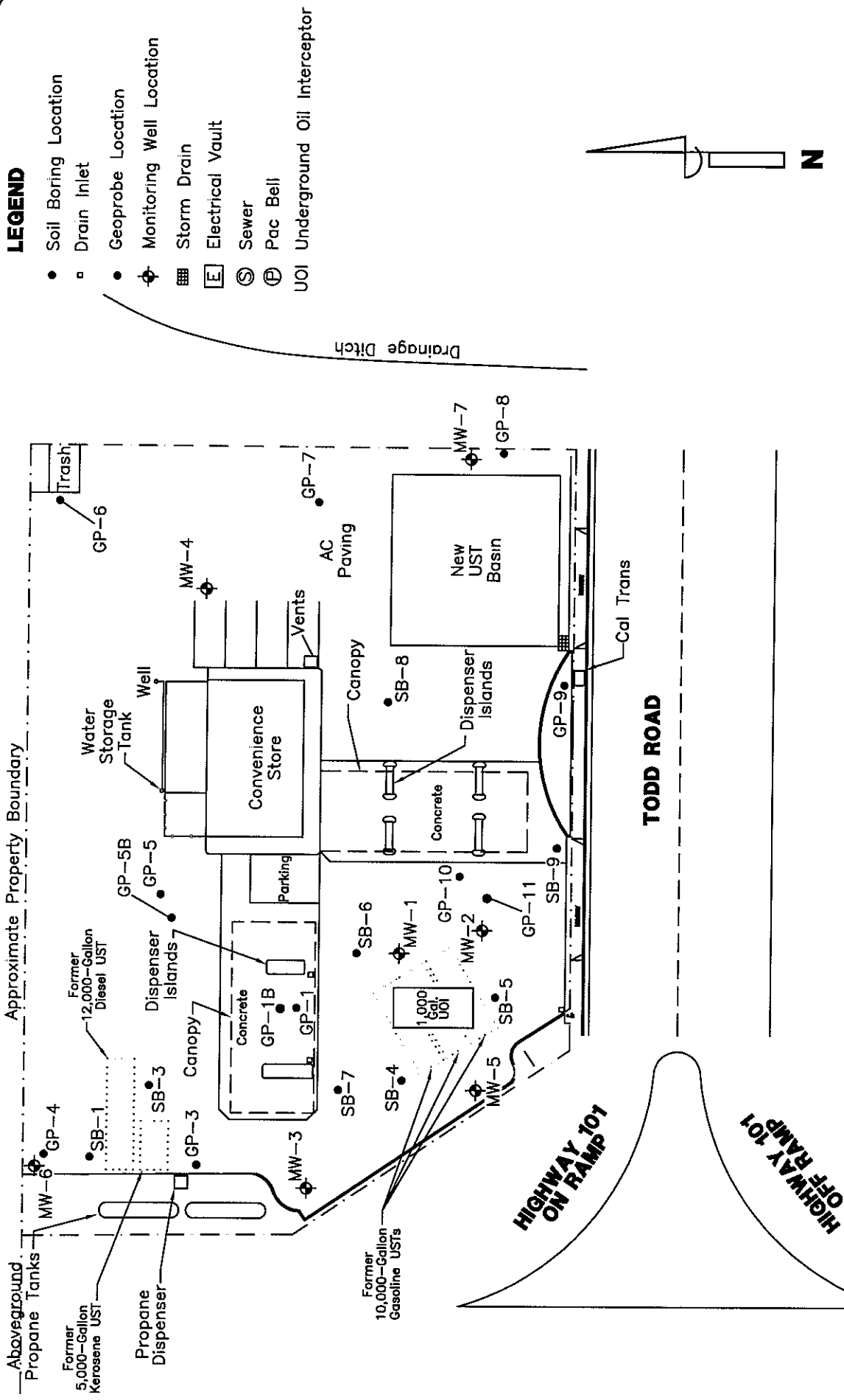
REVISIONS

SITE VICINITY MAP

Rotten Robbie Service Station No 60
55 Todd Road
Santa Rosa, California

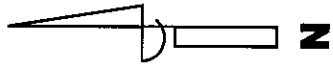
FIGURE
1

PROJECT NUMBER:
RMA01.001



LEGEND

- Soil Boring Location
- Drain Inlet
- Geoprobe Location
- ⊕ Monitoring Well Location
- ▨ Storm Drain
- [E] Electrical Vault
- ⊙ Sewer
- ⊖ Pac Bell
- UOI Underground Oil Interceptor



FIGURE

2

PROJECT NUMBER:

RMA01.001

SITE PLAN MAP

Rotten Robbie Service Station No. 60
55 Todd Road
Santa Rosa, California

DRAWN BY: J. Curry
DATE: 10/19/05

REVISIONS



Approximate Scale
1 inch = 40 feet

TABLES

TABLE 1
WELL CONSTRUCTION DETAILS
Rotten Robbie Service Station
55 E Todd Road
Santa Rosa, California

Well Number	Well Installation Date	*Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Casing Diameter (inches)	Screened Interval (feet)	Filter Pack Interval (feet)
MW-1	7/9/2004	104.67	PVC	23	23	6	3-23	2-23
MW-2	7/8/2004	104.15	PVC	23	23	4	3-23	2-23
MW-3	7/8/2004	104.87	PVC	23	23	4	3-23	2-23
MW-4	7/8/2004	105.94	PVC	23	23	2	3-23	2-23
MW-5	10/4/2005	104.27	PVC	23	23	2	3-23	2-23
MW-6	10/4/2005	105.85	PVC	23	23	2	3-23	2-23
MW-7	10/4/2005	104.15	PVC	23	23	2	3-23	2-23

Notes:

* = Surveyed by Apex Envirotech Inc to mean sea level

TOC = Top of Casing

PVC = Polyvinyl Chloride

TABLE 2
SOIL ANALYTICAL DATA
Rotten Robbie Service Station
55 E. Todd Road
Santa Rosa, California

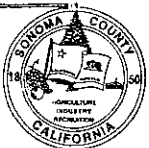
Sample ID	Date of Sampling	TPH as Gasoline (ug/kg)	TPH as Diesel (mg/kg)	Aromatic Volatile Organics				Fuel Oxygenates							1,2 DCA (ug/kg)	EDB (ug/kg)	Lead (mg/kg)
				Benzene (ug/kg)	Toluene (ug/kg)	Ethyl-Benzene (ug/kg)	Total Xylenes (ug/kg)	DIPE (ug/kg)	ETBE (ug/kg)	MTBE (ug/kg)	TAME (ug/kg)	TBA (ug/kg)	Ethanol (mg/kg)	Methanol (mg/kg)			
MW-5-6'	10/4/2005	<1,000	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---
MW-5-10.5'	10/4/2005	<1,000	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	1,300	<5.0	<5.0	<5.0	<5.0	---
MW-5-15'	10/4/2005	<1,000	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	10,000	<5.0	<5.0	<5.0	<5.0	---
MW-5-23'	10/4/2005	<1,000	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	6,400	<5.0	<5.0	<5.0	<5.0	---
MW-6-5.5'	10/4/2005	<1,000	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	420	<5.0	<5.0	<5.0	<5.0	---
MW-6-10.5'	10/4/2005	<1,000	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---
MW-6-15.5'	10/4/2005	<1,000	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---
MW-6-23.5'	10/4/2005	<1,000	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---
MW-7-10.5'	10/4/2005	<1,000	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---
MW-7-15.5'	10/4/2005	<1,000	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---
GP-1B-25	10/6/2005	<1,000	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---
GP-6B-27.5	10/6/2005	<1,000	<1.0	<5.0	<5.0	5.4	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	---
GP-11-5'	10/6/2005	<1,000	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	28,000	<5.0	<5.0	<5.0	<5.0	---
GP-11-10'	10/6/2005	<1,000	<1.0	<5.0	5.9	<5.0	<10	<5.0	<5.0	<5.0	<5.0	25,000	<5.0	<5.0	<5.0	<5.0	---
GP-11-15'	10/6/2005	<1,000	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	540	<5.0	<5.0	<5.0	<5.0	---
GP-11-21.5'	10/6/2005	<1,000	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	54	<5.0	<5.0	<5.0	<5.0	---
SP-1	10/6/2005	<1,000	<1.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	1,700	<5.0	<5.0	<5.0	<5.0	4.3

Notes:

TPH - Total Petroleum Hydrocarbons
MTBE - Methyl Tertiary Butyl Ether
TBA - Tertiary Butyl Alcohol
DIPE - Di-Isopropyl Ether
ETBE - Ethyl Tertiary Butyl Ether
TAME - Tertiary Amyl Methyl Ether
EDB - 1,2-Dibromoethane
1,2 DCA - 1,2-Dichloroethane
ug/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
--- - not analyzed

APPENDIX A

SCDHS LETTER DATED MARCH 16, 2005



COUNTY of SONOMA
DEPARTMENT OF HEALTH SERVICES

Rita Scardaci, MPH ~ Director
Sharon Aguilera ~ Assistant Director

May 16, 2005

Environmental Health Division

Walter L. Kruse - Director

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MAY 19 2005

David and Susan Zedrick
P.O. Box 7010
Santa Rosa, CA 95407

FILE COPY

Subject: 55 Todd Road, Santa Rosa -Leaking Underground Storage Tank Site
SCDHS-EHD Site # 00025034, NCRWQCB Site # 1TSO861
Sensitive Receptor Survey and Workplan for Additional Site Characterization Report
(Apex Envirotech, Inc., March 2, 2005) and *Clarification Letter* (April 28, 2005)

Dear Mr. and Mrs. Zedrick:

On March 22, 2005, this Department received the referenced report from Apex Envirotech, Inc. The document has been reviewed by our staff, which includes a Licensed Civil Engineer and we generally concur with the proposal to advance three Geoprobos and then install five monitoring wells to fully characterize the extent of contamination at the subject site. Please note the additional specific comments as follows:

1. An approved LUST Drilling Permit Application is required from this Department prior to the implementation of the work. An Attachment 3 Exemption form must be completed before the permit can be approved if any of the proposed monitoring wells are within 100 feet of a septic system, 50 feet of a public sewer line, or 25 feet within a private sewer line. An acceptable Site Safety Plan must be submitted for review prior to issuance of a LUST Drilling Permit and implementation of the work plan.
2. Drilling spoils placed on visqueen must be covered and bermed to prevent excess vapors and rainwater runoff. Drums of purge water and equipment rinsate must be clearly labeled with a description of the material drummed, source, and date of generation.
3. All contaminated or potentially contaminated materials generated from the investigation or cleanup of this site must be properly disposed and accounted for. Please retain all shipping documents and receipts of disposal of these materials for submittal to this Department.
4. 48 hour notice must be given to this Department prior to implementation of the workplan. "Stepped-out" borings may be done with verbal or written concurrence from Department staff when soils are found obviously contaminated.

David and Susan Zedrick
May 16, 2005
Page 2

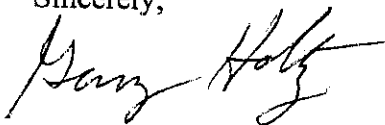
5. If groundwater is not encountered when boring to the proposed depth, the borings must be advanced until groundwater is reached or to a minimum of 50 feet if no groundwater is observed. Significant confining layers should not be penetrated.
6. The following data must be submitted electronically to the State Geotracker database as required by Title 23, Division 3, Chapter 30, Article 2, Sections 3890-3895 of the California Code of Regulations: 1) All chemical analytical results for soil, water and vapor samples; 2) latitudes and longitudes of any permanent sampling points; 3) surveyed elevations of permanent sampling points; 4) elevations of groundwater at permanent sampling points; 5) site map; 6) depths of screened intervals and lengths of screened intervals for any permanent sampling points; 7) boring logs (PDF format); and 8) complete copies of reports and workplans including the signed transmittal letters and professional certifications (PDF format). Information on electronic reporting can be found on the State Water Resources Control Board web page:
http://www.waterboards.ca.gov/ust/cleanup/electronic_reporting/

July 15, 2005 has been established as the due date for the implementation of the work plan and the submittal of a report of findings.

The State Cleanup Fund has discontinued its preapproval process because of a staffing shortage; however, reasonable and necessary costs should be eligible for reimbursement. The site must be in compliance with this Department's directives to be eligible for funding.

Please call me at (707) 565-6575 if you have any questions.

Sincerely,



Gary Holtz Registered Environmental Health Specialist
Leaking Underground Storage Tank, Local Oversight Program

GH

- c: Mr. David Charter, SWRCB Cleanup Fund
Mr. Michael Sgourakis, Apex Envirotech, Inc., 11244 Pyrites Way, Gold River, CA 95670
Mr. Luis Rivera, NCRWQCB
Mr. Ron Michelson, RM Associates, 16401 Meadow Vista Drive, Suite 102, Pioneer, CA 95666

APPENDIX B

APEX STANDARD OPERATING PROCEDURES

APEX ENVIROTECH, INC.

STANDARD OPERATING PROCEDURES

SOP-1B

DIRECT PUSH SOIL SAMPLING

During drilling, soil samples for chemical analysis are collected in thin-walled teflon sleeves, of varying diameters and lengths (e.g., 2 to 4 feet long by 2 inches outside diameter). A sampling sleeve is set inside the sampler of the appropriate inside-diameter. The sampler is driven hydraulically. The sampler is extracted from the borehole and the teflon sleeve, containing the soil samples, is removed.

A sample six-inches in length is sawed off from the teflon sleeve. The ends of this six-inch section are then capped with aluminum foil or "Teflon" sheets and plastic caps. To minimize the potential for cross-contamination and volatilization of volatile organic compounds (VOC) prior to chemical analysis, the sample is labeled, and sealed in a plastic bag. The sample is then placed in a cooler containing small bags of ice. The ice packs are placed around the sample to immobilize and chill it. This is all done within one minute of removal from the sampler. The cooler is kept in one location, unless travel is required for further sampling. Samples are later transported, under strict chain-of-custody, to the analytical laboratory.

In some events the soil samples cannot be submitted to the analytical laboratory on the same day. In these cases the soil samples are temporarily stored until the first opportunity for submittal either on ice in a cooler, such as when in the field, or in a refrigerator at Apex's office.

For quality control purposes, a duplicate soil sample will be analyzed. The duplicate sample will be run by splitting the contents of one brass sleeve. This will be done in the laboratory, and will be requested on the COC form.

One soil sample collected at each sampling interval is analyzed in the field using a portable photoionization detector (PID), flame ionization detector, organic vapor analyzer, catalytic gas detector, or an explosimeter. The purpose of this field analysis is to qualitatively determine the presence or absence of hydrocarbons. After the first sample has been sawed off for chemical analysis, another 3-inch section is removed and the material is emptied into a brass tube, glass jar, or plastic bag to allow for some volatilization of VOC. The soil is analyzed and the concentrations of hydrocarbons within the container's headspace are measured. The data is recorded on both field notes and the boring logs at the depth corresponding to the sampling point.

The teflon sleeve is then cut open and the remaining soil is classified according to the Unified Soil Classification System. The soil types are indicated on logs of either excavations or borings together with depths corresponding to the sampling points and other pertinent information. These are used to generate a stratigraphic profile beneath the project site, and estimate the relative permeability of the subsurface materials.

All drilling and sampling equipment are either steam cleaned or washed in solution and doubly rinsed in deionized water prior to use at each site and between boreholes to minimize the potential for cross-contamination.

APEX ENVIROTECH, INC.

STANDARD OPERATING PROCEDURE

Monitoring Wells

SOP - 1 **SOIL BORING SAMPLING**

During drilling, soil samples for chemical analysis are collected in thin-walled brass tubes, of varying diameters and lengths (e.g., 4 or 6 inches long by 2 inches outside diameter). Three or four of the selected tubes, plus a spacer tube, are set in an 18-inch long split-barrel sampler of the appropriate inside diameter.

Where possible, the split-barrel sampler is driven its entire length either hydraulically or using a 140-pound drop hammer. The sampler is extracted from the borehole and the brass tubes, containing the soil samples, are removed. Upon removal from the sampler, the selected brass tubes are either immediately trimmed and capped with aluminum foil or "Teflon" sheets and plastic caps or the samples are extruded from the tubes and sealed within other appropriate, cleaned sample containers. The samples are then hermetically sealed, labeled, and refrigerated for delivery, under strict chain-of-custody, to the analytical laboratory. These procedures minimize the potential for cross-contamination and volatilization of volatile organic compounds (VOC) prior to chemical analysis.

One soil sample collected at each sampling interval is analyzed in the field using either a portable photoionization detector (PID), flame ionization detector, organic vapor analyzer, catalytic gas detector, or an explosimeter. The purpose of this field analysis is to qualitatively determine the presence or absence of hydrocarbons, and the samples to be analyzed at the laboratory. The soil sample is sealed in either a brass tube, glass jar, or plastic bag to allow for some volatilization of VOC. The PID is then used to measure the concentrations of hydrocarbons within the containers's headspace. The data is recorded on both field notes and the boring logs at the depth corresponding to the sampling point.

Other soil samples are collected to document the soil and/or stratigraphic profile beneath the project site, and estimate the relative permeability of the subsurface materials. All drilling and sampling equipment are either steam cleaned or washed in solution and doubly rinsed in deionized water prior to use at each site and between boreholes to minimize the potential for cross-contamination.

In the event the soil samples cannot be submitted to the analytical laboratory on the same day they are collected (e.g., due to weekends or holidays), the samples are temporarily stored until the first opportunity for submittal either on ice in a cooler, such as when in the field or in a refrigerator at Apex's office.

SOP - 3 **SOIL CLASSIFICATION**

Soil samples are classified according to the Unified Soil Classification System. Representative portions of the samples may be submitted, under strict chain-of-custody, to an analytical laboratory for further examination and verification of the in-field classification and analysis of soil mechanical and/or petrophysical properties. The soil types are indicated on logs of either excavations or borings together with depths corresponding to the sampling points and other pertinent information.

SOP - 4 **SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES**

Sample identification and chain-of-custody procedures ensure sample integrity as well as document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, sampling methodology, name(s) of on-site personnel, and any other pertinent field observations also recorded on the field excavation or boring log.

Chain-of-custody forms are used to record possession of the sample from time of collection to arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s), and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

SOP - 5 **LABORATORY ANALYTICAL QUALITY ASSURANCE AND CONTROL**

In addition to routine instrument calibration, replicates, spikes, blanks, spiked blanks, and certified reference materials are routinely analyzed at method-specific frequencies to monitor precision and bias. Additional components of the laboratory Quality Assurance/Quality Control program include:

1. Participation in state and federal laboratory accreditation/certification programs;
2. Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;
3. Standard operating procedures describing routine and periodic instrument maintenance;
4. "Out-of-Control"/Corrective Action documentation procedures; and,
5. Multi-level review of raw data and client reports.

SOP - 6 **HOLLOW-STEM AUGER MONITORING WELL INSTALLATION AND DEVELOPMENT**

Boreholes for monitoring wells are drilled using a truck-mounted, hollow-stem auger drill rig. The borehole diameter will be a minimum of 4 inches larger than the outside diameter of the casing when installing well screen. The hollow-stem auger provides minimal interruption of drilling while permitting

soil sampling at desired intervals. Soil samples are collected by either hammering (with a 140-pound drop hammer) or hydraulically pushing a conventional split-barrel sampler containing pre-cleaned 2-inch-diameter brass tubes. A geologist or engineer from Apex Envirotech, Inc., continuously logs each borehole during drilling and constantly checks drill cuttings for indications of both the first recognizable occurrence of groundwater and volatile hydrocarbons using either a portable photoionization detector, flame ionization detector, or an explosimeter. The sampler is rinsed between samples and either steam cleaned or washed with all other drilling equipment between borings to minimize the potential for cross-contamination.

Monitoring wells are cased with threaded, factory-perforated and blank Schedule 40 PVC. The perforated interval consists of slotted casing, generally with 0.020-inch wide by 1.5-inch long slots, with 42 slots per foot. A PVC cap may be secured to the bottom of the casing with stainless steel screws; no solvents or cements are used. Centering devices may be fastened to the casing to ensure even distribution of filter material and grout within the borehole annulus. The well casing is thoroughly washed and/or steam cleaned, or may be purchased as pre-cleaned, prior to installation.

After setting the casing inside the hollow-stem auger, sand or gravel filter material is poured into the annular space to fill from boring bottom to generally 1 foot above the perforated interval. A 1- to 2-foot thick bentonite plug is set above this filter material to prevent grout from infiltrating the filter pack. Either neat cement, containing about 5 percent bentonite, or sand-cement grout is then tremied into the annular space from the top of the bentonite plug to near surface. A traffic-rated vault is installed around each wellhead for wells located in parking lots or driveways, while steel "stovepipes" are usually set over wellheads in landscaped areas.

After installation, the wells are thoroughly developed to remove residual drilling materials from the wellbore, and to improve well performance by removing fine material from the filter pack that may pass into the well. Well development techniques used may include pumping, surging, bailing, swabbing, jetting, flushing and air-lifting. All development water is collected either in drums or tanks for temporary storage, and properly disposed of depending on laboratory analytical results. To minimize the potential for cross-contamination between wells, all development equipment is either steam cleaned or properly washed prior to use. Following development, the well is allowed to stand undisturbed for a minimum of 24 hours before its first sampling.

SOP - 7 GROUNDWATER PURGING AND SAMPLING

Prior to water sampling, each well is purged by evacuating a minimum of three wetted well-casing volumes of groundwater. When required, purging will continue until either the discharge water temperature, conductivity, or pH stabilize, a maximum of ten wetted-casing volumes of groundwater have been recovered, or the well is bailed dry. When practical, the groundwater sample should be collected when the water level in the well recovers to at least 80 percent of its static level.

The sampling equipment consists of either a "Teflon" bailer, PVC bailer, or stainless steel bladder pump with a "Teflon" bladder. If the sampling system is dedicated to the well, then the bailer is usually "Teflon," but the bladder pump is PVC with a polypropylene bladder. In general and depending on the intended laboratory analysis, 40-milliliter glass, volatile organic

analysis (VOA) vials, with "Teflon" septa, are used as sample containers.

The groundwater sample is decanted into each VOA vial in such a manner that there is no meniscus at the top of the vial. A cap is quickly secured to the top of the vial. The vial is then inverted and gently tapped to see if air bubbles are present. If none are present, the vial is labeled and refrigerated for delivery, under strict chain-of-custody, to the analytical laboratory. Label information should include a unique sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.

For quality control purposes, a duplicate water sample is collected from each well. This sample may also be analyzed or put on hold at the laboratory. When required, a trip blank, prepared at the laboratory, is placed in the transport cooler. It is labeled similar to the well samples, remains in the cooler during transport, and is analyzed by the laboratory along with the groundwater samples. In addition, a field blank may be prepared in the field when sampling equipment is not dedicated. The field blank is prepared after a pump or bailer has been either steam cleaned or properly washed, prior to use in the next well, and is analyzed along with the other samples. The field blank analysis demonstrates the effectiveness of the in-field cleaning procedures to prevent cross-contamination.

To minimize the potential for cross-contamination between wells, all well development and water sampling equipment not dedicated to a well is either steam cleaned or properly washed between use. As a secondary precautionary measure, wells are sampled in order of least to highest concentrations as established by available previous analytical data.

In the event the water samples cannot be submitted to the analytical laboratory on the same day they are collected (e.g., due to weekends or holidays), the samples are temporarily stored until the first opportunity for submittal either on water ice in a cooler, such as when in the field, or in refrigerator at Apex's office.

SOP - 12 MEASURING LIQUID LEVELS USING WATER LEVEL METER OR INTERFACE PROBE

Field equipment used for liquid-level gauging typically includes the measuring instrument (water-level meter or interface probe) and product bailer(s). The field kit also includes cleaning supplies (buckets, solution, spray bottles, and deionized water) to be used in cleaning the equipment between wells.

Prior to measurement, the instrument tip is lowered into the well until it touches bottom. Using the previously established top-of-casing or top-of-box (i.e., wellhead vault) point, the probe cord (or halyard) is marked and a measuring tape (graduated in hundredths of a foot) is used to determine the distance between the probe end and the marking on the cord. This measurement is then recorded on the liquid-level data sheet as the "Measured Total Depth" of the well.

When necessary in using the interface probe to measure liquid levels, the probe is first electrically grounded to either the metal stove pipe or another metal object nearby. When no ground is available, reproducible measurements can be obtained by clipping the ground lead to the handle of the interface probe case.

The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates the probe is in water. The probe is slowly raised until either the oscillating tone ceases or becomes a steady tone. In either case, this is the depth-to-water (DTW) indication and the DTW measurement is made accordingly. The steady tone indicates floating liquid hydrocarbons (FLH). In this case, the probe is slowly raised until the steady tone ceases. This is the depth-to-product (DTP) indication and the DTP measurement is made accordingly.

The process of lowering and raising the probe must be repeated several times to ensure accurate measurements. The DTW and DTP measurements are recorded on the liquid-level data sheet. When FLH are indicated by the probe's response, a product bailer is lowered partially through the FLH-water interface to confirm the FLH on the water surface and as further indication of the FLH thickness, particularly in cases where the FLH layer is quite thin. This measurement is recorded on the data sheet as "FLH thickness."

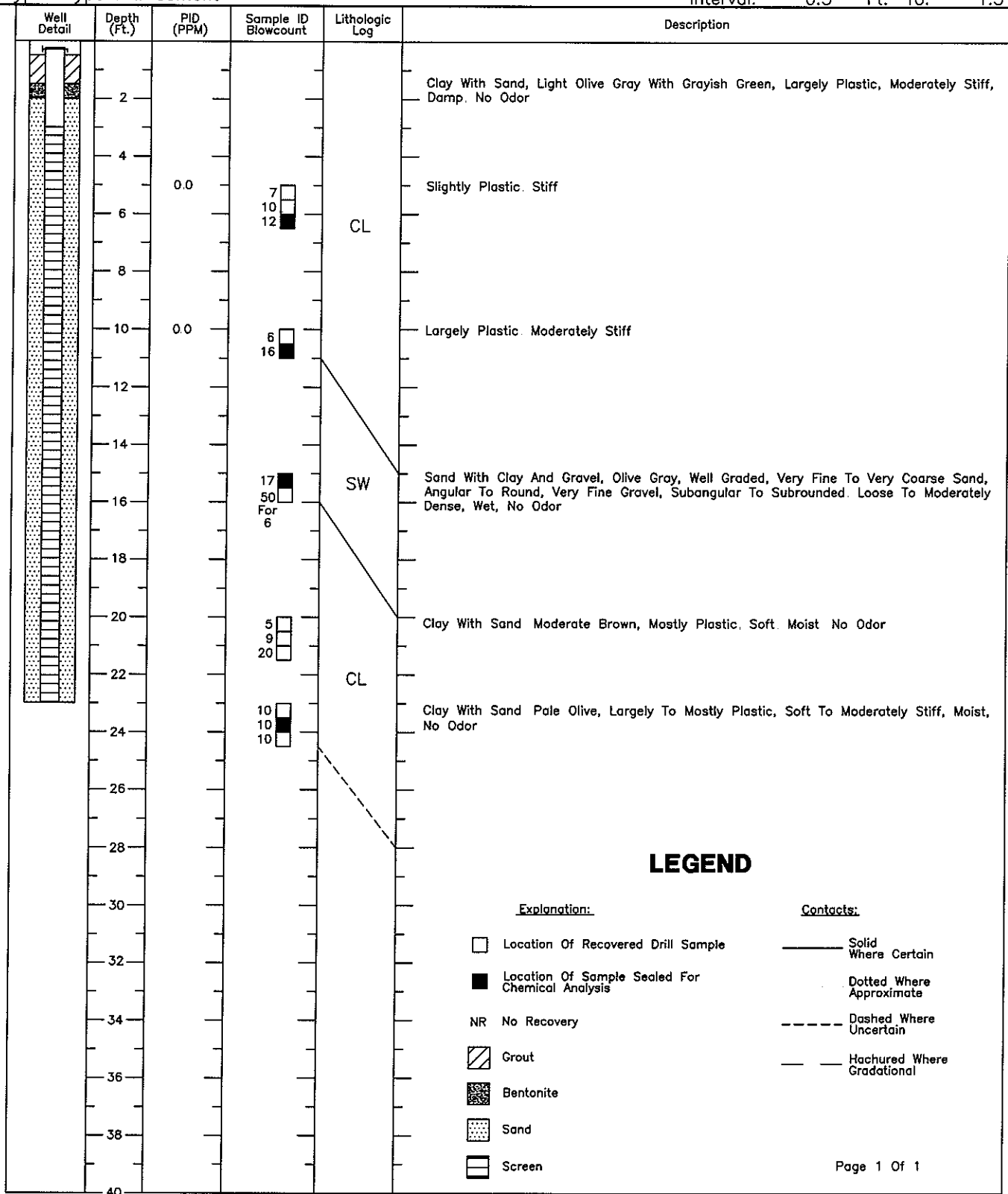
In order to avoid cross-contamination of wells during the liquid-level measurement process, wells are measured in the order of "clean" to "dirty" (where such information is available). In addition, all measurement equipment is cleaned with solution and thoroughly rinsed with deionized water before use, between measurements in respective wells, and at the completion of the day's use.

APPENDIX C

BORING LOGS AND WELL CONSTRUCTION DIAGRAMS

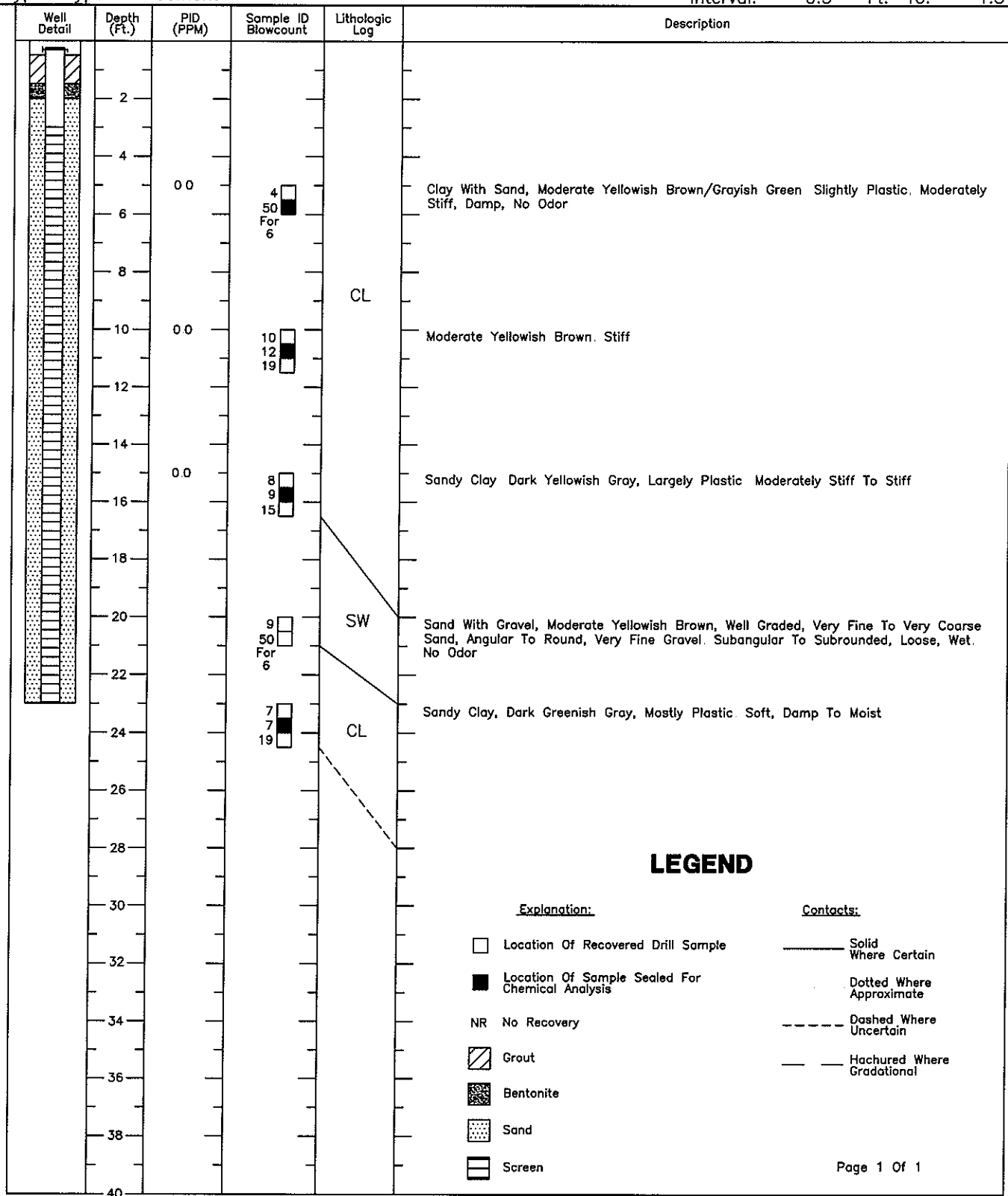
Rotten Robbie
Project: Service Station No. 60 Location: 55 Todd Road Santa Rosa, California BORING/WELL NO: MW-5
Date Drilled: 10-4-05 Logged By: Cheryl Martin Project # RMA01.001
Drilling Company: Woodward Drilling Co., Inc. Driller: Amador Reviewed By:
Method: Hollow Stem Auger

Bore Hole Diameter: 8 In. Depth Drilled: 23 Ft. Depth To Water: Initial: N/A Ft. Static: N/A Ft.
Casing Type: PVC Diameter: 2 In. Schedule: 40 Interval: 0.25 Ft. To: 3 Ft.
Screen Type: PVC Diameter: 2 In. Slot Size: 0.020 In. Interval: 3 Ft. To: 23 Ft.
Filter Pack Type: #3 Sand Interval: 2 Ft. To: 23 Ft.
Seal Type: Bentonite Interval: 1.5 Ft. To: 2 Ft.
Grout Type: Type I-II Cement Interval: 0.5 Ft. To: 1.5 Ft.



Rotten Robbie
Project: Service Station No. 60 Location: 55 Todd Road Santa Rosa, California
Date Drilled: 10-4-05 Logged By: Cheryl Martin Reviewed By:
Drilling Company: Woodward Drilling Co., Inc. Driller: Amador Method: Hollow Stem Auger
BORING/WELL NO: MW-6
Project # RMA01.001

Bore Hole Diameter: 8 In. Depth Drilled: 23 Ft. Depth To Water: Initial: N/A Ft. Static: N/A Ft.
Casing Type: PVC Diameter: 2 In. Schedule: 40 Interval: 0.25 Ft. To: 3 Ft.
Screen Type: PVC Diameter: 2 In. Slot Size: 0.020 In. Interval: 3 Ft. To: 23 Ft.
Filter Pack Type: #3 Sand Interval: 2 Ft. To: 23 Ft.
Seal Type: Bentonite Interval: 1.5 Ft. To: 2 Ft.
Grout Type: Type I-II Cement Interval: 0.5 Ft. To: 1.5 Ft.



LEGEND

Explanation:

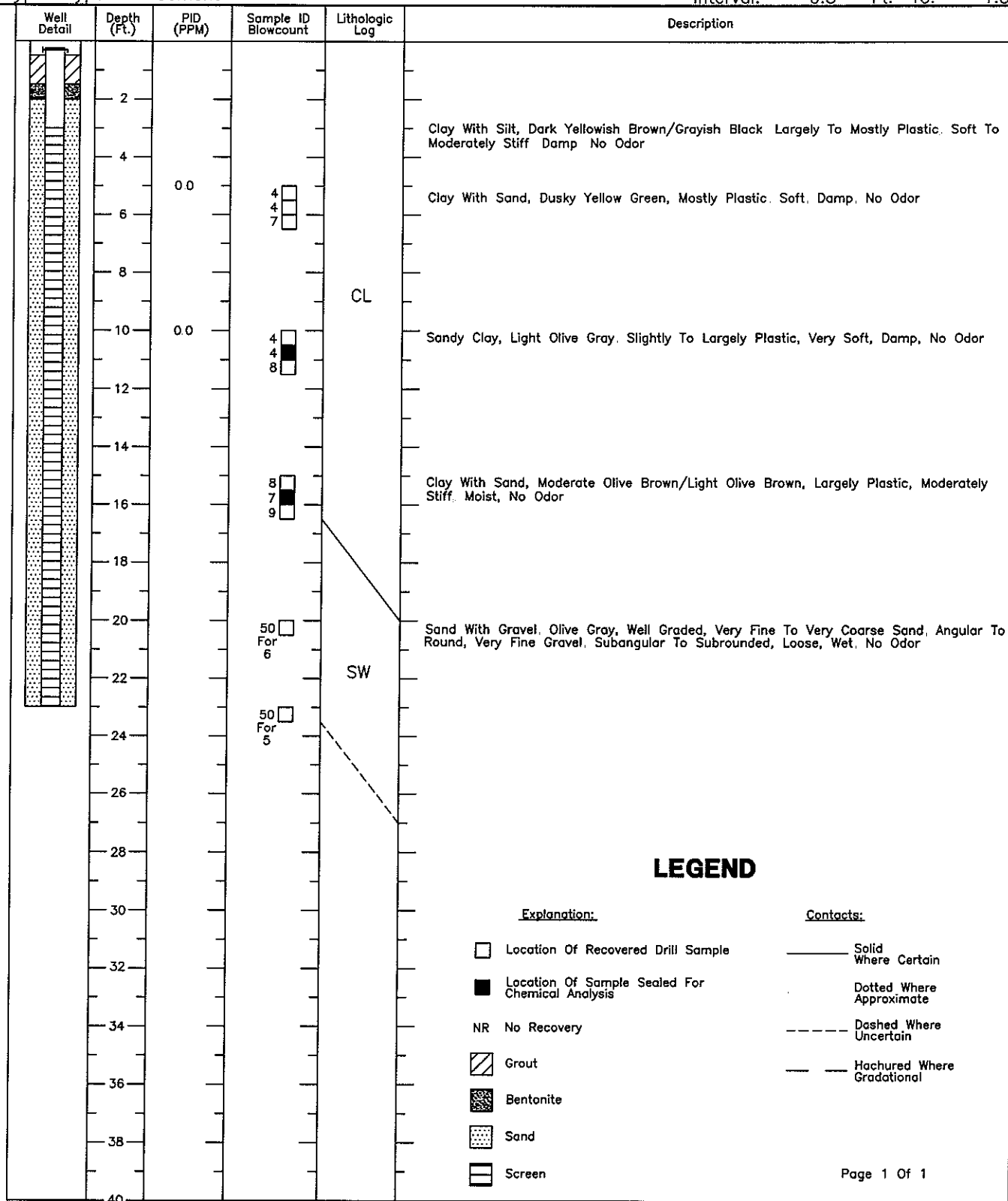
- ☐ Location Of Recovered Drill Sample
- ☒ Location Of Sample Sealed For Chemical Analysis
- NR No Recovery
- Grout
- Bentonite
- Sand
- Screen

Contacts:

- Solid Where Certain
- Dotted Where Approximate
- Dashed Where Uncertain
- Hachured Where Gradational

Project: Rotten Robbie Location: 55 Todd Road BORING/WELL NO: MW-7
Service Station No. 60 Location: Santa Rosa, California Project # RMA01.001
 Date Drilled: 10-4-05 Logged By: Cheryl Martin Reviewed By: _____
 Drilling Company: Woodward Drilling Co., Inc. Driller: Amador Method: Hollow Stem Auger

Bore Hole Diameter: 8 In. Depth Drilled: 23 Ft. Depth To Water: Initial: N/A Ft. Static: N/A Ft.
 Casing Type: PVC Diameter: 2 In. Schedule: 40 Interval: 0.25 Ft. To: 3 Ft.
 Screen Type: PVC Diameter: 2 In. Slot Size: 0.020 In. Interval: 3 Ft. To: 23 Ft.
 Filter Pack Type: #3 Sand Interval: 2 Ft. To: 23 Ft.
 Seal Type: Bentonite Interval: 1.5 Ft. To: 2 Ft.
 Grout Type: Type I-II Cement Interval: 0.5 Ft. To: 1.5 Ft.



LEGEND

Explanation:

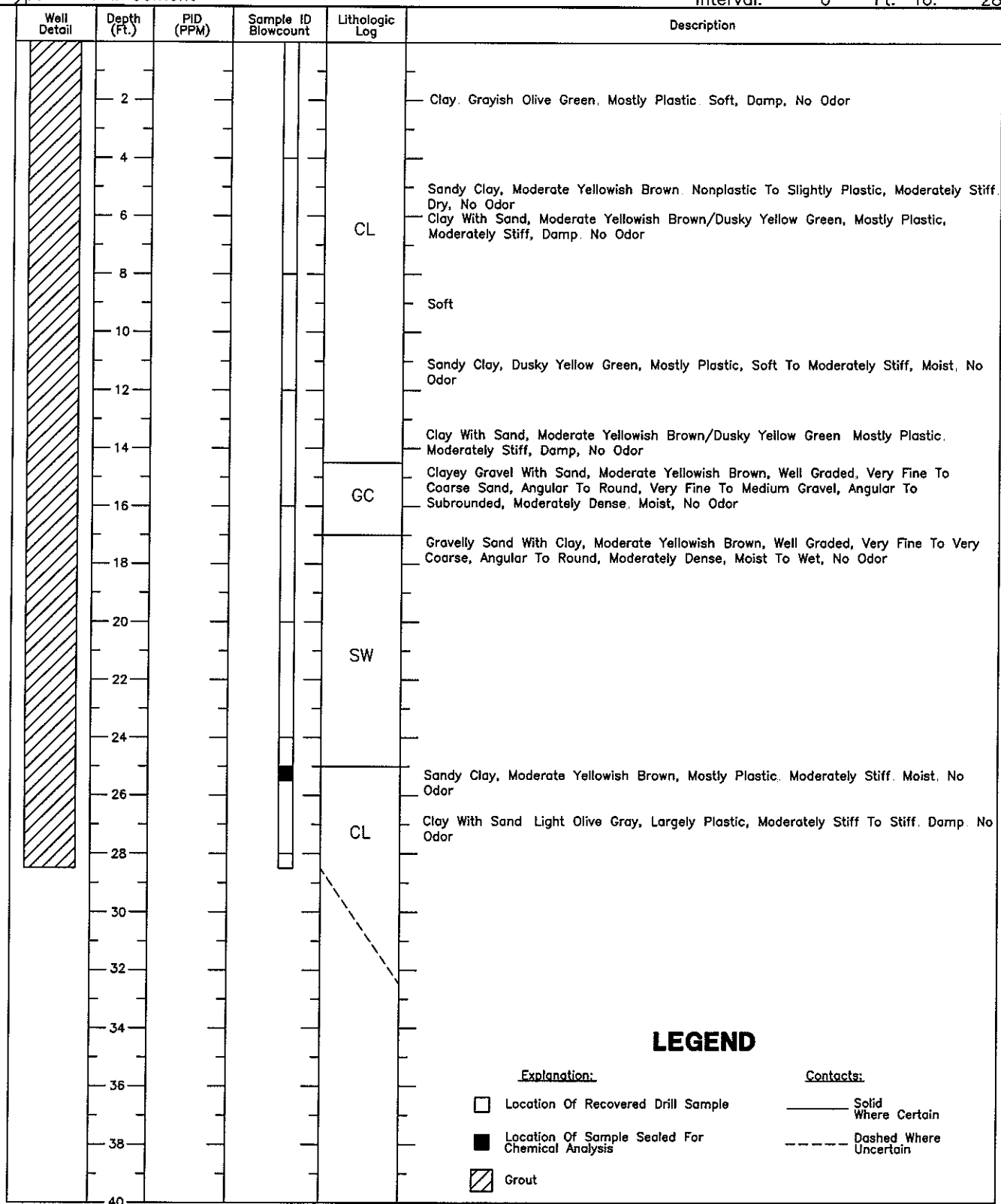
- ☐ Location Of Recovered Drill Sample
- ☒ Location Of Sample Sealed For Chemical Analysis
- NR No Recovery
- Grout
- Bentonite
- Sand
- Screen

Contacts:

- Solid Where Certain
- Dotted Where Approximate
- Dashed Where Uncertain
- Hatched Where Gradational



Project: Rotten Robbie		Location: 55 Todd Road		BORING NO: GP-1B	
Service Station No. 60		Santa Rosa, California		Project # RMA01.001	
Date Drilled: 10-6-05		Logged By: Cheryl Martin		Reviewed By:	
Drilling Company: Woodward Drilling Co., Inc.		Driller: Anthony		Method: Direct Push	
Bore Hole Diameter: 3 In.		Depth Drilled: 28.5 Ft.		Depth To Water: Initial: N/A Ft. Static: N/A Ft.	
Casing Type: N/A		Diameter: N/A In.		Schedule: N/A Interval: N/A Ft. To: N/A Ft.	
Screen Type: N/A		Diameter: N/A In.		Slot Size: N/A In. Interval: N/A Ft. To: N/A Ft.	
Filter Pack Type: N/A				Interval: N/A Ft. To: N/A Ft.	
Seal Type: N/A				Interval: N/A Ft. To: N/A Ft.	
Grout Type: I-II Cement				Interval: 0 Ft. To: 28.5 Ft.	



LEGEND

Explanation:

- Location Of Recovered Drill Sample
- Location Of Sample Sealed For Chemical Analysis
- Grout

Contacts:

- Solid Where Certain
- Dashed Where Uncertain



Rotten Robbie
 Project: Service Station No. 60 Location: 55 Todd Road Santa Rosa, California BORING NO: GP-5B
 Date Drilled: 10-6-05 Logged By: Cheryl Martin Project # RMA01.001
 Drilling Company: Woodward Drilling Co., Inc Driller: Anthony Reviewed By:
 Method: Direct Push
 Bore Hole Diameter: 3 In. Depth Drilled: 29 Ft. Depth To Water: Initial: N/A Ft. Static: N/A Ft.
 Casing Type: N/A Diameter: N/A In. Schedule: N/A Interval: N/A Ft. To: N/A Ft.
 Screen Type: N/A Diameter: N/A In. Slot Size: N/A In. Interval: N/A Ft. To: N/A Ft.
 Filter Pack Type: N/A Interval: N/A Ft. To: N/A Ft.
 Seal Type: N/A Interval: N/A Ft. To: N/A Ft.
 Grout Type: I-II Cement Interval: 0 Ft. To: 29 Ft.

Well Detail	Depth (Ft.)	PID (PPM)	Sample ID Blowcount	Lithologic Log	Description
	2				Clay, Light Olive Gray, Mostly Plastic, Soft, Damp, No Odor
	4				Changes To Olive Gray In Color
	6				Changes To Grayish Olive Green In Color
	8			CL	Sandy Clay, Moderate Yellowish Brown, Nonplastic To Slightly Plastic, Moderately Dense, Dry To Damp, No Odor
	10				Clay, Moderate Yellowish Brown, Slightly Plastic, Stiff, Damp, No Odor
	12				Clay With Sand, Dusky Yellow Green, Mostly Plastic, Soft, Damp
	14			SC	Sandy Clay, Moderate Yellowish Brown/Grayish Green, Largely Plastic, Soft To Moderately Stiff, Damp, No Odor
	16			CL	Clayey Sand, Grayish Green, Poorly Graded, Medium Sand, Moderately Dense, Moist To Wet, No Odor
	18				Sandy Clay, Moderate Yellowish Brown/Grayish Green, Slightly Plastic To Largely Plastic, Stiff, Damp To Moist
	20			SW	Gravelly Sand With Clay, Moderate Yellowish Brown With Grayish Green, Well Graded, Very Fine To Very Coarse, Angular To Subrounded, Very Fine To Medium Gravel, Subangular To Subrounded, Loose To Moderately Dense, Moist To Wet
	22				
	24			CL	Sandy Clay, Moderate Yellowish Brown, Largely Plastic, Soft To Moderately Stiff, Wet, No Odor
	26			SW	Gravelly Sand With Clay, Moderate Yellowish Brown, Well Graded, Very Fine To Very Coarse Sand, Angular To Subrounded, Very Fine To Medium Gravel, Angular To Subrounded, Loose To Moderately Dense, Wet, No Odor
	28			CL	Sandy Clay, Dusky Yellow Green, Largely Plastic To Mostly Plastic, Soft To Moderately Stiff, Damp To Moist, No Odor
	30				
	32				
	34				
	36				
	38				
40					

LEGEND

Explanation:

☐

Location Of Recovered Drill Sample

☒

Location Of Sample Sealed For Chemical Analysis

Grout

Contacts:

Solid Where Certain

Dashed Where Uncertain

LEGEND

Explanation:

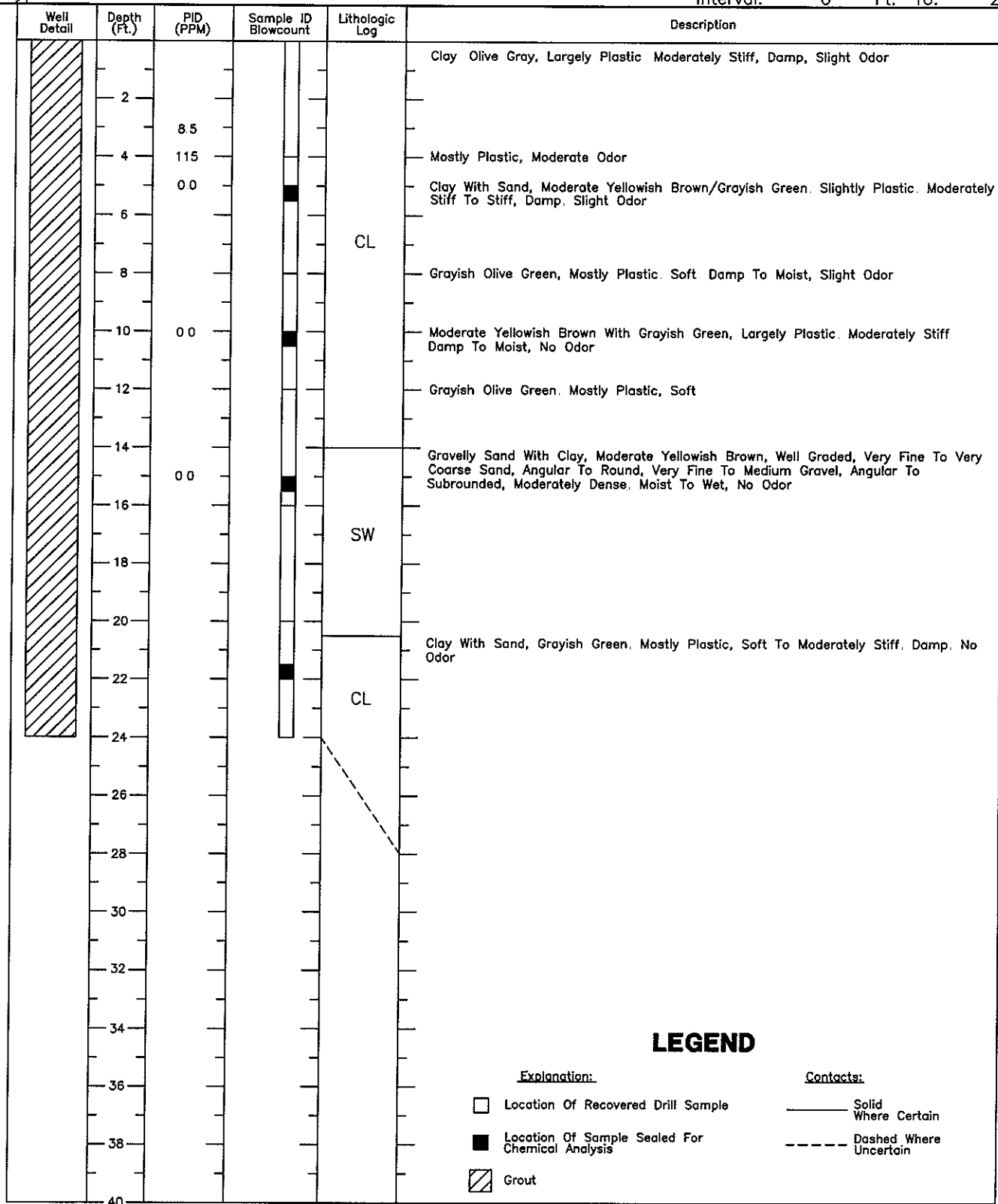
- Location Of Recovered Drill Sample
- Location Of Sample Sealed For Chemical Analysis
- Grout

Contacts:

- Solid Where Certain
- Dashed Where Uncertain






Rotten Robbie
 Project: Service Station No. 60 Location: 55 Todd Road Santa Rosa, California BORING NO: GP-11
 Date Drilled: 10-6-05 Logged By: Cheryl Martin Project # RMA01.001
 Drilling Company: Woodward Drilling Co., Inc. Driller: Anthony Reviewed By:
 Method: Direct Push
 Bore Hole Diameter: 3 In. Depth Drilled: 24 Ft. Depth To Water: Initial: N/A Ft. Static: N/A Ft.
 Casing Type: N/A Diameter: N/A In. Schedule: N/A Interval: N/A Ft. To: N/A Ft.
 Screen Type: N/A Diameter: N/A In. Slot Size: N/A In. Interval: N/A Ft. To: N/A Ft.
 Filter Pack Type: N/A Interval: N/A Ft. To: N/A Ft.
 Seal Type: N/A Interval: N/A Ft. To: N/A Ft.
 Grout Type: I-II Cement Interval: 0 Ft. To: 24 Ft.





LEGEND

Explanation:

-  Location Of Recovered Drill Sample
-  Location Of Sample Sealed For Chemical Analysis
-  Grout

Contacts:

-  Solid Where Certain
-  Dashed Where Uncertain

APPENDIX D

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS

CLS - Labs

CHAIN OF CUSTODY

CLS ID No.; 0030304

LOG NO. 56248

REPORT TO:		CLIENT JOB NUMBER		ANALYSIS REQUESTED		GEOTRACKER:	
NAME AND ADDRESS	PROJECT NUMBER	DATE	TIME	IDENTIFICATION	MATRIX	CONTAINER NO.	TYPE
Apex Environmental Inc. 110244 Pinks Way Gold River CA 95670	916851-0174	10-05-12	12:28	GP-5B-27.5'	SOIL	1	Glass
Robert Williams Rotten Public Service Station C. Martin		10-05-12	14:49	GP-1B-25'	↓	↓	↓
		10-05-12	16:21	GP-11-5'	↓	↓	↓
		10-05-12	16:27	GP-11-10'	↓	↓	↓
		10-05-12	16:32	GP-11-15'	↓	↓	↓
		10-05-12	16:50	GP-11-21.5'	↓	↓	↓
		10-05-12	17:10	SP-1	SOIL	4	↓

PRESERVATIVES		DATE / TIME		RECEIVED BY (SIGN)		PRINT NAME / COMPANY	
TPH & TPH 80547	BTX	10-05-12	18:26	<i>[Signature]</i>	10-05-12	18:26	10-05-12
7 Oxygenates		10-05-12	18:26	<i>[Signature]</i>	10-05-12	18:26	10-05-12
1,2,4,5,6		10-05-12	18:26	<i>[Signature]</i>	10-05-12	18:26	10-05-12
Total Lead		10-05-12	18:26	<i>[Signature]</i>	10-05-12	18:26	10-05-12

SUSPECTED CONSTITUENTS		DATE / TIME		RECEIVED BY (SIGN)		PRINT NAME / COMPANY	
		10-05-12	18:26	<i>[Signature]</i>	10-05-12	18:26	10-05-12

RECEIVED AT LAB BY:		DATE / TIME		RECEIVED BY (SIGN)		PRINT NAME / COMPANY	
<i>[Signature]</i>		10-05-12	18:26	<i>[Signature]</i>	10-05-12	18:26	10-05-12

SHIPPED BY:		DATE / TIME		RECEIVED BY (SIGN)		PRINT NAME / COMPANY	
<i>[Signature]</i>		10-05-12	18:26	<i>[Signature]</i>	10-05-12	18:26	10-05-12

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 17, 2005

CLS Work Order #: COJ0304
COC #: 56248

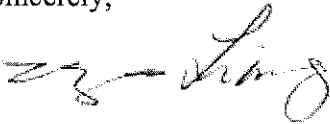
Rebekah Westrup
APEX Envirotech Inc. - Gold River
11244 Pyrites Way
Gold River, CA 95670

Project Name: Rotten Robbie Service Station

Enclosed are the results of analyses for samples received by the laboratory on 10/07/05 16:50. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

A handwritten signature in black ink, appearing to read "James Liang", written in a cursive style.

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

10/17/05 11:22

APEX Envirotech Inc - Gold River
11244 Pyrites Way
Gold River, CA 95670

Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0304
COC #: 56248

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-5B-27.5' (COJ0304-01) Soil Sampled: 10/06/05 12:28 Received: 10/07/05 16:50									
Diesel	ND	1.0	mg/kg	1	CO07666	10/10/05	10/10/05	EPA 8015M	
GP-1B-25' (COJ0304-02) Soil Sampled: 10/06/05 14:45 Received: 10/07/05 16:50									
Diesel	ND	1.0	mg/kg	1	CO07666	10/10/05	10/10/05	EPA 8015M	
GP-11-5' (COJ0304-03) Soil Sampled: 10/06/05 16:21 Received: 10/07/05 16:50									
Diesel	ND	1.0	mg/kg	1	CO07666	10/10/05	10/10/05	EPA 8015M	
GP-11-10' (COJ0304-04) Soil Sampled: 10/06/05 16:27 Received: 10/07/05 16:50									
Diesel	ND	1.0	mg/kg	1	CO07666	10/10/05	10/10/05	EPA 8015M	
GP-11-15' (COJ0304-05) Soil Sampled: 10/06/05 16:32 Received: 10/07/05 16:50									
Diesel	ND	1.0	mg/kg	1	CO07666	10/10/05	10/10/05	EPA 8015M	
GP-11-21.5' (COJ0304-06) Soil Sampled: 10/06/05 16:50 Received: 10/07/05 16:50									
Diesel	ND	1.0	mg/kg	1	CO07666	10/10/05	10/10/05	EPA 8015M	
SP-1 (A-D) Composite (COJ0304-11) Soil Sampled: 10/06/05 17:10 Received: 10/07/05 16:50									
Diesel	ND	1.0	mg/kg	1	CO07666	10/10/05	10/10/05	EPA 8015M	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

10/17/05 11:22

APEX Envirotech Inc - Gold River
11244 Pyrites Way
Gold River, CA 95670

Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0304
COC #: 56248

Gas/BTEX by GC PID/FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-5B-27.5' (COJ0304-01) Soil Sampled: 10/06/05 12:28 Received: 10/07/05 16:50									
Gasoline	ND	1000	µg/kg	1	CO07714	10/11/05	10/11/05	8015M/8021B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	5.4	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate: o-Chlorotoluene (Gas)</i>									
		105 %	65-135		"	"	"	"	
GP-1B-25' (COJ0304-02) Soil Sampled: 10/06/05 14:45 Received: 10/07/05 16:50									
Gasoline	ND	1000	µg/kg	1	CO07714	10/11/05	10/11/05	8015M/8021B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate: o-Chlorotoluene (Gas)</i>									
		101 %	65-135		"	"	"	"	
GP-11-5' (COJ0304-03) Soil Sampled: 10/06/05 16:21 Received: 10/07/05 16:50									
Gasoline	ND	1000	µg/kg	1	CO07714	10/11/05	10/11/05	8015M/8021B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate: o-Chlorotoluene (Gas)</i>									
		105 %	65-135		"	"	"	"	
GP-11-10' (COJ0304-04) Soil Sampled: 10/06/05 16:27 Received: 10/07/05 16:50									
Gasoline	ND	1000	µg/kg	1	CO07714	10/11/05	10/11/05	8015M/8021B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	5.9	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate: o-Chlorotoluene (Gas)</i>									
		107 %	65-135		"	"	"	"	

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APEX Envirotech Inc - Gold River
11244 Pyrites Way
Gold River, CA 95670

Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0304
COC #: 56248

Gas/BTEX by GC PID/FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-11-15' (COJ0304-05) Soil Sampled: 10/06/05 16:32 Received: 10/07/05 16:50									
Gasoline	ND	1000	µg/kg	1	CO07714	10/11/05	10/11/05	8015M/8021B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate o-Chlorotoluene (Gas)</i>									
		99.6 %	65-135		"	"	"	"	
GP-11-21.5' (COJ0304-06) Soil Sampled: 10/06/05 16:50 Received: 10/07/05 16:50									
Gasoline	ND	1000	µg/kg	1	CO07714	10/11/05	10/11/05	8015M/8021B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate o-Chlorotoluene (Gas)</i>									
		103 %	65-135		"	"	"	"	
SP-1 (A-D) Composite (COJ0304-11) Soil Sampled: 10/06/05 17:10 Received: 10/07/05 16:50									
Gasoline	ND	1000	µg/kg	1	CO07714	10/11/05	10/11/05	8015M/8021B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate o-Chlorotoluene (Gas)</i>									
		102 %	65-135		"	"	"	"	

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Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup
CLS Work Order #: COJ0304
COC #: 56248

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (A-D) Composite (COJ0304-11) Soil Sampled: 10/06/05 17:10 Received: 10/07/05 16:50									
Lead	4.3	2.5	mg/kg	1	CO07713	10/11/05	10/11/05	EPA 6010B	

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Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0304
COC #: 56248

Non-halogenated Organic Compounds by EPA 8015

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-5B-27.5' (COJ0304-01) Soil Sampled: 10/06/05 12:28 Received: 10/07/05 16:50									
Ethanol	ND	5.0	mg/kg	1	CO07775	10/13/05	10/13/05	EPA 8015B	
Methanol	ND	5.0	"	"	"	"	"	"	
GP-1B-25' (COJ0304-02) Soil Sampled: 10/06/05 14:45 Received: 10/07/05 16:50									
Ethanol	ND	5.0	mg/kg	1	CO07775	10/13/05	10/13/05	EPA 8015B	
Methanol	ND	5.0	"	"	"	"	"	"	
GP-11-5' (COJ0304-03) Soil Sampled: 10/06/05 16:21 Received: 10/07/05 16:50									
Ethanol	ND	5.0	mg/kg	1	CO07775	10/13/05	10/13/05	EPA 8015B	
Methanol	ND	5.0	"	"	"	"	"	"	
GP-11-10' (COJ0304-04) Soil Sampled: 10/06/05 16:27 Received: 10/07/05 16:50									
Ethanol	ND	5.0	mg/kg	1	CO07775	10/13/05	10/13/05	EPA 8015B	
Methanol	ND	5.0	"	"	"	"	"	"	
GP-11-15' (COJ0304-05) Soil Sampled: 10/06/05 16:32 Received: 10/07/05 16:50									
Ethanol	ND	5.0	mg/kg	1	CO07775	10/13/05	10/13/05	EPA 8015B	
Methanol	ND	5.0	"	"	"	"	"	"	
GP-11-21.5' (COJ0304-06) Soil Sampled: 10/06/05 16:50 Received: 10/07/05 16:50									
Ethanol	ND	5.0	mg/kg	1	CO07775	10/13/05	10/13/05	EPA 8015B	
Methanol	ND	5.0	"	"	"	"	"	"	
SP-1 (A-D) Composite (COJ0304-11) Soil Sampled: 10/06/05 17:10 Received: 10/07/05 16:50									
Ethanol	ND	5.0	mg/kg	1	CO07775	10/13/05	10/13/05	EPA 8015B	
Methanol	ND	5.0	"	"	"	"	"	"	

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Gold River, CA 95670

Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup
CLS Work Order #: COJ0304
COC #: 56248

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-5B-27.5' (COJ0304-01) Soil Sampled: 10/06/05 12:28 Received: 10/07/05 16:50									
Di-isopropyl ether	ND	5.0	µg/kg	1	CO07710	10/11/05	10/11/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	

Surrogate Toluene-d8 97.8 % 60-140 " " " "

GP-1B-25' (COJ0304-02) Soil Sampled: 10/06/05 14:45 Received: 10/07/05 16:50

Di-isopropyl ether	ND	5.0	µg/kg	1	CO07710	10/11/05	10/11/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	

Surrogate Toluene-d8 102 % 60-140 " " " "

GP-11-5' (COJ0304-03) Soil Sampled: 10/06/05 16:21 Received: 10/07/05 16:50

Di-isopropyl ether	ND	5.0	µg/kg	1	CO07710	10/11/05	10/11/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	37	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	28000	2500	"	50	"	"	10/13/05	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	1	"	"	10/11/05	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	

Surrogate Toluene-d8 99.8 % 60-140 " " " "

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Gold River, CA 95670

Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0304
COC #: 56248

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-11-10' (COJ0304-04) Soil Sampled: 10/06/05 16:27 Received: 10/07/05 16:50									
Di-isopropyl ether	ND	5.0	µg/kg	1	CO07710	10/11/05	10/11/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	19	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	25000	2500	"	50	"	"	10/13/05	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	1	"	"	10/11/05	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	

Surrogate: Toluene-d8 103 % 60-140 " " " "

GP-11-15' (COJ0304-05) Soil Sampled: 10/06/05 16:32 Received: 10/07/05 16:50

Di-isopropyl ether	ND	5.0	µg/kg	1	CO07754	10/12/05	10/12/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	540	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	

Surrogate: Toluene-d8 101 % 60-140 " " " "

GP-11-21.5' (COJ0304-06) Soil Sampled: 10/06/05 16:50 Received: 10/07/05 16:50

Di-isopropyl ether	ND	5.0	µg/kg	1	CO07710	10/11/05	10/11/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	200	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	54	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	

Surrogate: Toluene-d8 101 % 60-140 " " " "

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Project: Rotten Robbie Service Station
Project Number: RMA01.001
Project Manager: Rebekah Westrup

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (A-D) Composite (COJ0304-11) Soil Sampled: 10/06/05 17:10 Received: 10/07/05 16:50									
Di-isopropyl ether	ND	5.0	µg/kg	1	CO07664	10/10/05	10/10/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	5.1	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	1700	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
<i>Surrogate Toluene-d8</i>		<i>101 %</i>		<i>60-140</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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11244 Pyrites Way
Gold River, CA 95670

Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0304
COC #: 56248

Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO07666 - LUFT-DHS GCNV										
Blank (CO07666-BLK1)				Prepared & Analyzed: 10/10/05						
Diesel	ND	1 0	mg/kg							
Motor Oil	ND	1 0	"							
LCS (CO07666-BS1)				Prepared & Analyzed: 10/10/05						
Diesel	40 2	1 0	mg/kg	50 0		80 4	65-135			
LCS Dup (CO07666-BSD1)				Prepared & Analyzed: 10/10/05						
Diesel	41 2	1 0	mg/kg	50 0		82 4	65-135	2 46	30	
Matrix Spike (CO07666-MS1)				Source: COJ0331-01		Prepared & Analyzed: 10/10/05				
Diesel	43 1	1 0	mg/kg	50 0	ND	86 2	59-138			
Matrix Spike Dup (CO07666-MSD1)				Source: COJ0331-01		Prepared & Analyzed: 10/10/05				
Diesel	40 8	1 0	mg/kg	50 0	ND	81 6	59-138	5 48	37	

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Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0304
COC #: 56248

Gas/BTEX by GC PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO07714 - EPA 5030 Soil GC

Blank (CO07714-BLK1)

Prepared & Analyzed: 10/11/05

Gasoline	ND	1000	µg/kg							
Benzene	ND	50	"							
Toluene	ND	50	"							
Ethylbenzene	ND	50	"							
Xylenes (total)	ND	10	"							

Surrogate o-Chlorotoluene (Gas)	103		"	100		103	65-135			
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LCS (CO07714-BS1)

Prepared & Analyzed: 10/11/05

Gasoline	2540	1000	µg/kg	2500		102	65-135			
Surrogate o-Chlorotoluene (Gas)	103		"	100		103	65-135			

LCS Dup (CO07714-BSD1)

Prepared & Analyzed: 10/11/05

Gasoline	2760	1000	µg/kg	2500		110	65-135	8 30	30	
Surrogate o-Chlorotoluene (Gas)	106		"	100		106	65-135			

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Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0304
COC #: 56248

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO07713 - EPA 3050B										
Blank (CO07713-BLK1)										
Lead	ND	2.5	mg/kg							Prepared & Analyzed: 10/11/05
LCS (CO07713-BS1)										
Lead	23.9	2.5	mg/kg	25.0		95.6	75-125			Prepared & Analyzed: 10/11/05
LCS Dup (CO07713-BSD1)										
Lead	24.1	2.5	mg/kg	25.0		96.4	75-125	0.833	25	Prepared & Analyzed: 10/11/05
Matrix Spike (CO07713-MS1)										
Lead	27.8	2.5	mg/kg	25.0	7.4	81.6	75-125			Source: COJ0351-01 Prepared & Analyzed: 10/11/05
Matrix Spike Dup (CO07713-MSD1)										
Lead	27.8	2.5	mg/kg	25.0	7.4	81.6	75-125	0.00	30	Source: COJ0351-01 Prepared & Analyzed: 10/11/05

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Project Number: RMA01.001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0304
COC #: 56248

Non-halogenated Organic Compounds by EPA 8015 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO07775 - LUFI-DHS GCNV										
Blank (CO07775-BLK1)				Prepared & Analyzed: 10/13/05						
Ethanol	ND	5.0	mg/kg							
Methanol	ND	5.0	"							
LCS (CO07775-BS1)				Prepared & Analyzed: 10/13/05						
Methanol	52.5	5.0	mg/kg	50.0		105	75-125			
LCS Dup (CO07775-BSD1)				Prepared & Analyzed: 10/13/05						
Methanol	50.3	5.0	mg/kg	50.0		101	75-125	4.28	30	
Matrix Spike (CO07775-MS1)				Source: COJ0304-11		Prepared & Analyzed: 10/13/05				
Methanol	44.6	5.0	mg/kg	50.0	ND	89.2	75-125			
Matrix Spike Dup (CO07775-MSD1)				Source: COJ0304-11		Prepared & Analyzed: 10/13/05				
Methanol	39.0	5.0	mg/kg	50.0	ND	78.0	75-125	13.4	30	

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Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0304
COC #: 56248

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO07664 - EPA 5030 Soil MS

Blank (CO07664-BLK1)

Prepared & Analyzed: 10/10/05

Di-isopropyl ether	ND	5.0	µg/kg
Ethyl tert-butyl ether	ND	5.0	"
Methyl tert-butyl ether	ND	5.0	"
tert-Amyl methyl ether	ND	5.0	"
Tert-butyl alcohol	ND	5.0	"

Surrogate Toluene-d8	49.4		"	50.0		98.8	60-140
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LCS (CO07664-BS1)

Prepared & Analyzed: 10/10/05

Methyl tert-butyl ether	42.2	5.0	µg/kg	50.0		84.4	60-140
Surrogate Toluene-d8	50.1		"	50.0		100	60-140

LCS Dup (CO07664-BSD1)

Prepared & Analyzed: 10/10/05

Methyl tert-butyl ether	36.8	5.0	µg/kg	50.0	73.6	60-140	13.7	30
Surrogate Toluene-d8	50.7	"		50.0	101	60-140		

Matrix Spike (CO07664-MS1)

Source: COJ0127-10

Prepared & Analyzed: 10/10/05

Methyl tert-butyl ether	45.1	5.0	µg/kg	50.0	ND	90.2	60-140
Surrogate Toluene-d8	51.1		"	50.0		102	60-140

Matrix Spike Dup (CO07664-MSD1)

Source: COJ0127-10

Prepared & Analyzed: 10/10/05

Methyl tert-butyl ether	49.5	5.0	µg/kg	50.0	ND	99.0	60-140	9.30	30
Surrogate Toluene-d8	51.2	"		50.0		102	60-140		

Batch CO07710 - EPA 5030 Soil MS

Blank (CO07710-BLK1)

Prepared & Analyzed: 10/11/05

Di-isopropyl ether	ND	5.0	µg/kg
Ethyl tert-butyl ether	ND	5.0	"
Methyl tert-butyl ether	ND	5.0	"
tert-Amyl methyl ether	ND	5.0	"
Tert-butyl alcohol	ND	5.0	"

Surrogate Toluene-d8	50.5		"	50.0		101	60-140
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11244 Pyrites Way
Gold River, CA 95670

Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0304
COC #: 56248

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO07710 - EPA 5030 Soil MS

LCS (CO07710-BS1)

Prepared & Analyzed: 10/11/05

Methyl tert-butyl ether	44.7	5.0	µg/kg	50.0		89.4	60-140			
Surrogate Toluene-d8	52.2		"	50.0		104	60-140			

LCS Dup (CO07710-BSD1)

Prepared & Analyzed: 10/11/05

Methyl tert-butyl ether	50.3	5.0	µg/kg	50.0		101	60-140	11.8	30	
Surrogate Toluene-d8	50.9		"	50.0		102	60-140			

Matrix Spike (CO07710-MS1)

Source: COJ0278-03

Prepared & Analyzed: 10/11/05

Methyl tert-butyl ether	47.2	5.0	µg/kg	50.0	ND	94.4	60-140			
Surrogate Toluene-d8	52.1		"	50.0		104	60-140			

Matrix Spike Dup (CO07710-MSD1)

Source: COJ0278-03

Prepared & Analyzed: 10/11/05

Methyl tert-butyl ether	44.8	5.0	µg/kg	50.0	ND	89.6	60-140	5.22	30	
Surrogate Toluene-d8	49.3		"	50.0		98.6	60-140			

Batch CO07754 - EPA 5030 Soil MS

Blank (CO07754-BLK1)

Prepared & Analyzed: 10/12/05

Di-isopropyl ether	ND	5.0	µg/kg							
Ethyl tert-butyl ether	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
tert-Amyl methyl ether	ND	5.0	"							
Tert-butyl alcohol	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
Benzene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
Toluene	ND	5.0	"							
Xylenes (total)	ND	10	"							
Surrogate Toluene-d8	51.8		"	50.0		104	60-140			

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10/17/05 11:22

APEX Envirotech Inc - Gold River
11244 Pyrites Way
Gold River, CA 95670

Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0304
COC #: 56248

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO07754 - EPA 5030 Soil MS										
LCS (CO07754-BS1)				Prepared & Analyzed: 10/12/05						
Methyl tert-butyl ether	39.6	5.0	µg/kg	50.0		79.2	60-140			
Surrogate Toluene-d8	52.7		"	50.0		105	60-140			
LCS Dup (CO07754-BSD1)				Prepared & Analyzed: 10/12/05						
Methyl tert-butyl ether	44.4	5.0	µg/kg	50.0		88.8	60-140	11.4	30	
Surrogate Toluene-d8	53.5		"	50.0		107	60-140			
Matrix Spike (CO07754-MS1)				Source: COJ0339-11		Prepared & Analyzed: 10/12/05				
Methyl tert-butyl ether	42.6	5.0	µg/kg	50.0	ND	85.2	60-140			
Surrogate Toluene-d8	51.5		"	50.0		103	60-140			
Matrix Spike Dup (CO07754-MSD1)				Source: COJ0339-11		Prepared & Analyzed: 10/12/05				
Methyl tert-butyl ether	44.2	5.0	µg/kg	50.0	ND	88.4	60-140	3.69	30	
Surrogate Toluene-d8	50.2		"	50.0		100	60-140			

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10/17/05 11:22

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CLS Work Order #: COJ0304
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Notes and Definitions

DET Analyte DETECTED
ND Analyte NOI DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 12, 2005

CLS Work Order #: COJ0127
COC #: 56247

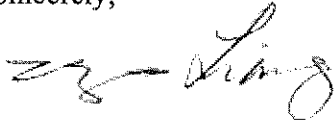
Rebekah Westrup
APEX Envirotech Inc - Gold River
11244 Pyrites Way
Gold River, CA 95670

Project Name: Rotten Robbie Service Station

Enclosed are the results of analyses for samples received by the laboratory on 10/05/05 10:55
Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved
methodologies I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance

Sincerely,

A handwritten signature in black ink, appearing to read "James Liang", written in a cursive style.

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

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10/12/05 15:39

APEX Envirotech Inc - Gold River
11244 Pyrites Way
Gold River, CA 95670

Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0127
COC #: 56247

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5-6' (COJ0127-01) Soil Sampled: 10/04/05 10:15 Received: 10/05/05 10:55									
Diesel	ND	1 0	mg/kg	1	CO07573	10/05/05	10/06/05	EPA 8015M	
MW-5-10.5' (COJ0127-02) Soil Sampled: 10/04/05 10:18 Received: 10/05/05 10:55									
Diesel	ND	1 0	mg/kg	1	CO07573	10/05/05	10/06/05	EPA 8015M	
MW-5-15' (COJ0127-03) Soil Sampled: 10/04/05 10:23 Received: 10/05/05 10:55									
Diesel	ND	1 0	mg/kg	1	CO07573	10/05/05	10/06/05	EPA 8015M	
MW-5-23' (COJ0127-04) Soil Sampled: 10/04/05 10:30 Received: 10/05/05 10:55									
Diesel	ND	1 0	mg/kg	1	CO07573	10/05/05	10/06/05	EPA 8015M	
MW-7-10.5' (COJ0127-05) Soil Sampled: 10/04/05 12:15 Received: 10/05/05 10:55									
Diesel	ND	1 0	mg/kg	1	CO07573	10/05/05	10/06/05	EPA 8015M	
MW-7-15.5' (COJ0127-06) Soil Sampled: 10/04/05 12:20 Received: 10/05/05 10:55									
Diesel	ND	1 0	mg/kg	1	CO07573	10/05/05	10/06/05	EPA 8015M	
MW-6-5.5' (COJ0127-07) Soil Sampled: 10/04/05 14:25 Received: 10/05/05 10:55									
Diesel	ND	5 0	mg/kg	5	CO07573	10/05/05	10/06/05	EPA 8015M	R-08
MW-6-10.5' (COJ0127-08) Soil Sampled: 10/04/05 14:27 Received: 10/05/05 10:55									
Diesel	ND	1 0	mg/kg	1	CO07573	10/05/05	10/06/05	EPA 8015M	
MW-6-15.5' (COJ0127-09) Soil Sampled: 10/04/05 14:30 Received: 10/05/05 10:55									
Diesel	ND	1 0	mg/kg	1	CO07573	10/05/05	10/06/05	EPA 8015M	

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Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0127
COC #: 56247

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6-23.5' (COJ0127-10) Soil Sampled: 10/04/05 14:40 Received: 10/05/05 10:55									
Diesel	ND	10	mg/kg	1	CO07573	10/05/05	10/06/05	EPA 8015M	

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11244 Pyrites Way
Gold River, CA 95670

Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0127
COC #: 56247

Gas/BTEX by GC PID/FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5-6' (COJ0127-01) Soil Sampled: 10/04/05 10:15 Received: 10/05/05 10:55									
Gasoline	ND	1000	µg/kg	1	CO07554	10/05/05	10/06/05	8015M/8021B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate o-Chlorotoluene (Gas)</i>									
		110 %	65-135		"	"	"	"	
MW-5-10.5' (COJ0127-02) Soil Sampled: 10/04/05 10:18 Received: 10/05/05 10:55									
Gasoline	ND	1000	µg/kg	1	CO07554	10/05/05	10/06/05	8015M/8021B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate o-Chlorotoluene (Gas)</i>									
		110 %	65-135		"	"	"	"	
MW-5-15' (COJ0127-03) Soil Sampled: 10/04/05 10:23 Received: 10/05/05 10:55									
Gasoline	ND	1000	µg/kg	1	CO07554	10/05/05	10/06/05	8015M/8021B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate o-Chlorotoluene (Gas)</i>									
		109 %	65-135		"	"	"	"	
MW-5-23' (COJ0127-04) Soil Sampled: 10/04/05 10:30 Received: 10/05/05 10:55									
Gasoline	ND	1000	µg/kg	1	CO07554	10/05/05	10/06/05	8015M/8021B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate o-Chlorotoluene (Gas)</i>									
		112 %	65-135		"	"	"	"	

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APEX Envirotech Inc - Gold River
11244 Pyrites Way
Gold River, CA 95670

Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0127
COC #: 56247

Gas/BTEX by GC PID/FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-7-10.5' (COJ0127-05) Soil Sampled: 10/04/05 12:15 Received: 10/05/05 10:55

Gasoline	ND	1000	µg/kg	1	CO07555	10/05/05	10/05/05	8015M/8021B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate o-Chlorotoluene (Gas) 92.9 % 65-135 " " " "

MW-7-15.5' (COJ0127-06) Soil Sampled: 10/04/05 12:20 Received: 10/05/05 10:55

Gasoline	ND	1000	µg/kg	1	CO07555	10/05/05	10/05/05	8015M/8021B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate o-Chlorotoluene (Gas) 94.3 % 65-135 " " " "

MW-6-5.5' (COJ0127-07) Soil Sampled: 10/04/05 14:25 Received: 10/05/05 10:55

Gasoline	ND	1000	µg/kg	1	CO07555	10/05/05	10/05/05	8015M/8021B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate o-Chlorotoluene (Gas) 94.7 % 65-135 " " " "

MW-6-10.5' (COJ0127-08) Soil Sampled: 10/04/05 14:27 Received: 10/05/05 10:55

Gasoline	ND	1000	µg/kg	1	CO07555	10/05/05	10/05/05	8015M/8021B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate o-Chlorotoluene (Gas) 96.3 % 65-135 " " " "

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CALIFORNIA LABORATORY SERVICES

10/12/05 15:39

APEX Envirotech Inc - Gold River
11244 Pyrites Way
Gold River, CA 95670

Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0127
COC #: 56247

Gas/BTEX by GC PID/FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6-15.5' (COJ0127-09) Soil Sampled: 10/04/05 14:30 Received: 10/05/05 10:55									
Gasoline	ND	1000	µg/kg	1	CO07555	10/05/05	10/05/05	8015M/8021B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate o-Chlorotoluene (Gas)</i>									
		96.9 %	65-135		"	"	"	"	
MW-6-23.5' (COJ0127-10) Soil Sampled: 10/04/05 14:40 Received: 10/05/05 10:55									
Gasoline	ND	1000	µg/kg	1	CO07555	10/05/05	10/05/05	8015M/8021B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
<i>Surrogate o-Chlorotoluene (Gas)</i>									
		95.8 %	65-135		"	"	"	"	

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Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0127
COC #: 56247

Non-halogenated Organic Compounds by EPA 8015

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5-6' (COJ0127-01) Soil Sampled: 10/04/05 10:15 Received: 10/05/05 10:55									
Ethanol	ND	5.0	mg/kg	1	CO07622	10/07/05	10/07/05	EPA 8015B	
Methanol	ND	5.0	"	"	"	"	"	"	
MW-5-10.5' (COJ0127-02) Soil Sampled: 10/04/05 10:18 Received: 10/05/05 10:55									
Ethanol	ND	5.0	mg/kg	1	CO07622	10/07/05	10/07/05	EPA 8015B	
Methanol	ND	5.0	"	"	"	"	"	"	
MW-5-15' (COJ0127-03) Soil Sampled: 10/04/05 10:23 Received: 10/05/05 10:55									
Ethanol	ND	5.0	mg/kg	1	CO07622	10/07/05	10/07/05	EPA 8015B	
Methanol	ND	5.0	"	"	"	"	"	"	
MW-5-23' (COJ0127-04) Soil Sampled: 10/04/05 10:30 Received: 10/05/05 10:55									
Ethanol	ND	5.0	mg/kg	1	CO07622	10/07/05	10/07/05	EPA 8015B	
Methanol	ND	5.0	"	"	"	"	"	"	
MW-7-10.5' (COJ0127-05) Soil Sampled: 10/04/05 12:15 Received: 10/05/05 10:55									
Ethanol	ND	5.0	mg/kg	1	CO07622	10/07/05	10/07/05	EPA 8015B	
Methanol	ND	5.0	"	"	"	"	"	"	
MW-7-15.5' (COJ0127-06) Soil Sampled: 10/04/05 12:20 Received: 10/05/05 10:55									
Ethanol	ND	5.0	mg/kg	1	CO07622	10/07/05	10/07/05	EPA 8015B	
Methanol	ND	5.0	"	"	"	"	"	"	
MW-6-5.5' (COJ0127-07) Soil Sampled: 10/04/05 14:25 Received: 10/05/05 10:55									
Ethanol	ND	5.0	mg/kg	1	CO07622	10/07/05	10/07/05	EPA 8015B	
Methanol	ND	5.0	"	"	"	"	"	"	

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Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0127
COC #: 56247

Non-halogenated Organic Compounds by EPA 8015

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6-10.5' (COJ0127-08) Soil Sampled: 10/04/05 14:27 Received: 10/05/05 10:55									
Ethanol	ND	5 0	mg/kg	1	CO07622	10/07/05	10/07/05	EPA 8015B	
Methanol	ND	5 0	"	"	"	"	"	"	
MW-6-15.5' (COJ0127-09) Soil Sampled: 10/04/05 14:30 Received: 10/05/05 10:55									
Ethanol	ND	5 0	mg/kg	1	CO07622	10/07/05	10/07/05	EPA 8015B	
Methanol	ND	5 0	"	"	"	"	"	"	
MW-6-23.5' (COJ0127-10) Soil Sampled: 10/04/05 14:40 Received: 10/05/05 10:55									
Ethanol	ND	5 0	mg/kg	1	CO07622	10/07/05	10/07/05	EPA 8015B	
Methanol	ND	5 0	"	"	"	"	"	"	

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COC #: 56247

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5-6' (COJ0127-01) Soil Sampled: 10/04/05 10:15 Received: 10/05/05 10:55									
Di-isopropyl ether	ND	5.0	µg/kg	1	CO07653	10/07/05	10/10/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	1300	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	

Surrogate Toluene-d8 99.8 % 60-140 " " " "

MW-5-10.5' (COJ0127-02) Soil Sampled: 10/04/05 10:18 Received: 10/05/05 10:55

Di-isopropyl ether	ND	5.0	µg/kg	1	CO07653	10/07/05	10/10/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	10000	500	"	10	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	1	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	

Surrogate Toluene-d8 99.4 % 60-140 " " " "

MW-5-15' (COJ0127-03) Soil Sampled: 10/04/05 10:23 Received: 10/05/05 10:55

Di-isopropyl ether	ND	5.0	µg/kg	1	CO07653	10/07/05	10/10/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	6400	200	"	4	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	1	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	

Surrogate Toluene-d8 97.6 % 60-140 " " " "

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11244 Pyrites Way
Gold River, CA 95670

Project: Rotten Robbie Service Station
Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0127
COC #: 56247

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5-23' (COJ0127-04) Soil Sampled: 10/04/05 10:30 Received: 10/05/05 10:55									
Di-isopropyl ether	ND	5.0	µg/kg	1	CO07653	10/07/05	10/10/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	860	25	"	5	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	1	"	"	"	"	
Tert-butyl alcohol	420	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Surrogate Toluene-d8		97.6 %	60-140		"	"	"	"	
MW-7-10.5' (COJ0127-05) Soil Sampled: 10/04/05 12:15 Received: 10/05/05 10:55									
Di-isopropyl ether	ND	5.0	µg/kg	1	CO07653	10/07/05	10/10/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Surrogate Toluene-d8		96.0 %	60-140		"	"	"	"	
MW-7-15.5' (COJ0127-06) Soil Sampled: 10/04/05 12:20 Received: 10/05/05 10:55									
Di-isopropyl ether	ND	5.0	µg/kg	1	CO07653	10/07/05	10/10/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Surrogate Toluene-d8		98.8 %	60-140		"	"	"	"	

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11244 Pyrites Way
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Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0127
COC #: 56247

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6-5.5' (COJ0127-07) Soil Sampled: 10/04/05 14:25 Received: 10/05/05 10:55									
Di-isopropyl ether	ND	5.0	µg/kg	1	CO07653	10/07/05	10/10/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
<i>Surrogate Toluene-d8</i>		96.6 %	60-140		"	"	"	"	
MW-6-10.5' (COJ0127-08) Soil Sampled: 10/04/05 14:27 Received: 10/05/05 10:55									
Di-isopropyl ether	ND	5.0	µg/kg	1	CO07653	10/07/05	10/10/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
<i>Surrogate Toluene-d8</i>		100 %	60-140		"	"	"	"	
MW-6-15.5' (COJ0127-09) Soil Sampled: 10/04/05 14:30 Received: 10/05/05 10:55									
Di-isopropyl ether	ND	5.0	µg/kg	1	CO07653	10/07/05	10/10/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
<i>Surrogate Toluene-d8</i>		102 %	60-140		"	"	"	"	

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Gold River, CA 95670

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Project Number: RMA01 001
Project Manager: Rebekah Westrup

CLS Work Order #: COJ0127
COC #: 56247

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6-23.5' (COJ0127-10) Soil Sampled: 10/04/05 14:40 Received: 10/05/05 10:55									
Di-isopropyl ether	ND	5.0	µg/kg	1	CO07664	10/10/05	10/10/05	EPA 8260B	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	

Surrogate: Toluene-d8 101 % 60-140 " " " "

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Project Manager: Rebekah Westrup

CLS Work Order #: COJ0127
COC #: 56247

Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO07573 - LUFI-DHS GCNV										
Blank (CO07573-BL K1)				Prepared: 10/05/05 Analyzed: 10/06/05						
Diesel	ND	10	mg/kg							
LCS (CO07573-BS1)				Prepared: 10/05/05 Analyzed: 10/06/05						
Diesel	50.3	10	mg/kg	50.0		101	65-135			
LCS Dup (CO07573-BSD1)				Prepared: 10/05/05 Analyzed: 10/06/05						
Diesel	47.7	10	mg/kg	50.0		95.4	65-135	5.31	30	
Matrix Spike (CO07573-MS1)				Source: COJ0127-10 Prepared: 10/05/05 Analyzed: 10/06/05						
Diesel	48.9	10	mg/kg	50.0	ND	97.8	59-138			
Matrix Spike Dup (CO07573-MSD1)				Source: COJ0127-10 Prepared: 10/05/05 Analyzed: 10/06/05						
Diesel	50.4	10	mg/kg	50.0	ND	101	59-138	3.02	37	

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Project Manager: Rebekah Westrup

CLS Work Order #: COJ0127
COC #: 56247

Gas/BTEX by GC PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO07554 - EPA 5030 Soil GC

Blank (CO07554-BLK1)

Prepared & Analyzed: 10/05/05

Gasoline	ND	1000	µg/kg							
Benzene	ND	50	"							
Toluene	ND	50	"							
Ethylbenzene	ND	50	"							
Xylenes (total)	ND	10	"							
Surrogate o-Chlorotoluene (BTEX)	122		"	100		122	65-135			
Surrogate o-Chlorotoluene (Gas)	112		"	100		112	65-135			

LCS (CO07554-BS1)

Prepared & Analyzed: 10/05/05

Gasoline	2120	1000	µg/kg	2500		84.8	65-135			
Surrogate o-Chlorotoluene (Gas)	107		"	100		107	65-135			

LCS Dup (CO07554-BSD1)

Prepared & Analyzed: 10/05/05

Gasoline	2310	1000	µg/kg	2500		92.4	65-135	8.58	30	
Surrogate o-Chlorotoluene (Gas)	114		"	100		114	65-135			

Matrix Spike (CO07554-MS1)

Source: COJ0069-08

Prepared & Analyzed: 10/05/05

Gasoline	2390	1000	µg/kg	2500	ND	95.6	63-124			
Surrogate o-Chlorotoluene (Gas)	114		"	100		114	65-135			

Matrix Spike Dup (CO07554-MSD1)

Source: COJ0069-08

Prepared & Analyzed: 10/05/05

Gasoline	2430	1000	µg/kg	2500	ND	97.2	63-124	1.66	35	
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Batch CO07555 - EPA 5030 Soil GC

Blank (CO07555-BLK1)

Prepared & Analyzed: 10/05/05

Gasoline	ND	1000	µg/kg							
Benzene	ND	50	"							
Toluene	ND	50	"							
Ethylbenzene	ND	50	"							
Xylenes (total)	ND	10	"							
Surrogate o-Chlorotoluene (BTEX)	109		"	100		109	65-135			

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916-638-7301

Fax: 916-638-4510

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CLS Work Order #: COJ0127
COC #: 56247

Gas/BTEX by GC PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO07555 - EPA 5030 Soil GC										
Blank (CO07555-BLK1)				Prepared & Analyzed: 10/05/05						
Surrogate o-Chlorotoluene (Gas)	98.6		µg/kg	100		98.6	65-135			
LCS (CO07555-BS1)				Prepared & Analyzed: 10/05/05						
Gasoline	2050	1000	µg/kg	2500		82.0	65-135			
Surrogate o-Chlorotoluene (Gas)	103		"	100		103	65-135			
LCS Dup (CO07555-BSD1)				Prepared & Analyzed: 10/05/05						
Gasoline	2390	1000	µg/kg	2500		95.6	65-135	15.3	30	
Surrogate o-Chlorotoluene (Gas)	104		"	100		104	65-135			
Matrix Spike (CO07555-MS1)				Source: COJ0069-12	Prepared & Analyzed: 10/05/05					
Gasoline	2290	1000	µg/kg	2500	ND	91.6	63-124			
Surrogate o-Chlorotoluene (Gas)	97.3		"	100		97.3	65-135			
Matrix Spike Dup (CO07555-MSD1)				Source: COJ0069-12	Prepared & Analyzed: 10/05/05					
Gasoline	1970	1000	µg/kg	2500	ND	78.8	63-124	15.0	35	
Surrogate o-Chlorotoluene (Gas)	101		"	100		101	65-135			

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COC #: 56247

Non-halogenated Organic Compounds by EPA 8015 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO07622 - LUFI-DHS GCNV										
Blank (CO07622-BLK1)				Prepared & Analyzed: 10/07/05						
Ethanol	ND	5.0	mg/kg							
Methanol	ND	5.0	"							
LCS (CO07622-BS1)				Prepared & Analyzed: 10/07/05						
Methanol	51.7	5.0	mg/kg	50.0		103	75-125			
LCS Dup (CO07622-BSD1)				Prepared & Analyzed: 10/07/05						
Methanol	49.1	5.0	mg/kg	50.0		98.2	75-125	5.16	30	
Matrix Spike (CO07622-MS1)				Source: COJ0127-01		Prepared & Analyzed: 10/07/05				
Methanol	27.1	5.0	mg/kg	50.0	ND	54.2	75-125			QM-01
Matrix Spike Dup (CO07622-MSD1)				Source: COJ0127-01		Prepared & Analyzed: 10/07/05				
Methanol	32.0	5.0	mg/kg	50.0	ND	64.0	75-125	16.6	30	QM-01

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COC #: 56247

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CO07653 - EPA 5030 Soil MS

Blank (CO07653-BLK1)

Prepared: 10/07/05 Analyzed: 10/10/05

Di-isopropyl ether	ND	5.0	µg/kg							
Ethyl tert-butyl ether	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
tert-Amyl methyl ether	ND	5.0	"							
Tert-butyl alcohol	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							

Surrogate Toluene-d8	48.9		"	50.0		97.8	60-140			
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LCS (CO07653-BS1)

Prepared: 10/07/05 Analyzed: 10/10/05

Methyl tert-butyl ether	45.7	5.0	µg/kg	50.0		91.4	60-140			
Surrogate Toluene-d8	50.2		"	50.0		100	60-140			

LCS Dup (CO07653-BSD1)

Prepared: 10/07/05 Analyzed: 10/10/05

Methyl tert-butyl ether	39.3	5.0	µg/kg	50.0		78.6	60-140	15.1	30	
Surrogate Toluene-d8	49.3		"	50.0		98.6	60-140			

Matrix Spike (CO07653-MS1)

Source: COJ0148-05

Prepared: 10/07/05 Analyzed: 10/10/05

Methyl tert-butyl ether	40.8	5.0	µg/kg	50.0	ND	81.6	60-140			
Surrogate Toluene-d8	48.8		"	50.0		97.6	60-140			

Matrix Spike Dup (CO07653-MSD1)

Source: COJ0148-05

Prepared: 10/07/05 Analyzed: 10/10/05

Methyl tert-butyl ether	39.1	5.0	µg/kg	50.0	ND	78.2	60-140	4.26	30	
Surrogate Toluene-d8	50.2		"	50.0		100	60-140			

Batch CO07664 - EPA 5030 Soil MS

Blank (CO07664-BLK1)

Prepared & Analyzed: 10/10/05

Di-isopropyl ether	ND	5.0	µg/kg							
Ethyl tert-butyl ether	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
tert-Amyl methyl ether	ND	5.0	"							

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CLS Work Order #: COJ0127
COC #: 56247

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CO07664 - EPA 5030 Soil MS										
Blank (CO07664-BLK1)										
					Prepared & Analyzed: 10/10/05					
Tert-butyl alcohol	ND	50	µg/kg							
Surrogate Toluene-d8	49.4		"	50.0		98.8	60-140			
LCS (CO07664-BS1)										
					Prepared & Analyzed: 10/10/05					
Methyl tert-butyl ether	42.2	50	µg/kg	50.0		84.4	60-140			
Surrogate Toluene-d8	50.1		"	50.0		100	60-140			
LCS Dup (CO07664-BSD1)										
					Prepared & Analyzed: 10/10/05					
Methyl tert-butyl ether	36.8	50	µg/kg	50.0		73.6	60-140	13.7	30	
Surrogate Toluene-d8	50.7		"	50.0		101	60-140			
Matrix Spike (CO07664-MS1)										
		Source: COJ0127-10			Prepared & Analyzed: 10/10/05					
Methyl tert-butyl ether	45.1	50	µg/kg	50.0	ND	90.2	60-140			
Surrogate Toluene-d8	51.1		"	50.0		102	60-140			
Matrix Spike Dup (CO07664-MSD1)										
		Source: COJ0127-10			Prepared & Analyzed: 10/10/05					
Methyl tert-butyl ether	49.5	50	µg/kg	50.0	ND	99.0	60-140	9.30	30	
Surrogate Toluene-d8	51.2		"	50.0		102	60-140			

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Notes and Definitions

R-08 The extract of this sample was dark and/or oily Therefore, the sample was analyzed with a dilution and the reporting limit was raised for all target compounds

QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference

DEI Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference